BY ORDER OF THE COMMANDER
AIR MOBILITY COMMAND

AMC MANUAL 21-116

1 MAY 2000

Maintenance

G081 AUTOMATED FORMS MANUAL

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This manual provides procedural guidance for the use of G081 automated forms for all Air Mobility Command (AMC) units, Air Force Material Command (AFMC) depots, AMC-gained Air Force Reserve Command (AFRC) units, and AMC-gained Air National Guard (ANG) units. Contractors shall comply with this document as specified in the Performance Work Statement.

Chapter 1

GENERAL INFORMATION

1.1. Overview. The Core Automated Maintenance System (CAMS) FOR MOBILITY (G081) MAINTENANCE MANAGEMENT INFORMATION SYSTEM is capable of providing automated forms to schedule, support and create historical records for aircraft, engines and support equipment. Using automated forms provides a highly responsive database which provides managers and supervisors at all levels with almost instantaneous information. The key to maintaining this database rests with the personnel accomplishing aircraft maintenance tasks. In addition to the responsibilities of servicing, repairing and inspecting aircraft, factual and timely documentation is an inherent part of the maintenance activity.

1.1.1. The use of G081 automated forms whenever practicable is required by AMCI 21-101 and AMCI 21-112.

1.2. Purpose of this Manual. This manual, in conjunction with guidance provided in Air Force Instructions (AFI), Technical Orders (TO) and Air Mobility Command Instructions (AMCI), requires that automated forms be used whenever possible. This manual has been developed to aid maintenance personnel in requesting and updating automated forms, including Department of Defense, AFTO and AMC forms, through the G081 system. In Air Mobility Command, the use of automated forms that are able to be produced in G081 will be used if available. When GO81 is not available then the use of manual forms is acceptable. Detailed guidance on G081 programs that produce or alter an automated form is included in this manual.

1.3. G081 System. The G081 system is a Maintenance Management Information System (MMIS) used exclusively by AMC and those agencies that interface with AMC. These agencies include, but are not limited to, the Air National Guard (ANG), Air Force Reserve Command (AFRC), Air Force Material Command (AFMC) depots and Air Education and Training Command (AETC).

1.4. Using G081. Information in G081 is used to evaluate situations and determine actions that can effect the entire Air Mobility Command. A full listing of G081 programs can be found in AMCPAM 21-115 *Cams for Mobility Program Description*. Responsibility for the accuracy and effectiveness of the G081 system rests squarely on the shoulders of all system users. You must ensure that the data entered in the various programs you process precisely reflects the maintenance action or flight incident and is free of error.

1.4.1. Before you can input or extract information into the G081 system, you must be granted access. This is accomplished by a visit to the base G081 Manager who will establish your user identification and determine which programs you will have access to. You will need to acquire your G081 USERID from the local G081 Manager and decide on a PASSWORD. If your position requires it, the G081 Manager may also grant you a special access to the system by providing you with a KEY (or code) which allows you the capability to access and update certain programs.

1.4.2. Protecting the security and integrity of the G081 system is everyone's responsibility. Although no classified information is processed in this system, corrupt data can severely reduce it's reliability. Unauthorized users can create serious problems adversely effecting our ability to manage the assets under our care. You must ensure that you safeguard your password and not allow unauthorized users to access the system.

1.5. System Help. Help screens contain a variety of information such as the purpose of the program, data entry requirements for that program, and an explanation of any field that requires special coding. G081 Managers continuously refine these functions to ensure that your questions can be answered on-line. You can access on-line help from any program you are currently working on by pressing the PF1 key. A very important point to remember is that when you access this feature, any of the data you entered into a program so far will be gone when you return from on-line help. ***NOTE:*** You are advised to either use the help feature early on in your data entry activity, or print out the help screen for your program prior to beginning data entry.

1.5.1. Program 9051 can also be used to access help for any G081 program. This program provides a means to create, update and list program execution instructions. Only the Programmers at Tinker Air Force Base and G081 Managers at HQ AMC have the authority to update these items, but any user can scan and print the instructions.

1.5.2. Access Program 9051 by entering /FOR F9051 and then pressing the ENTER key. Enter ACTION CODE L to list the instructions, P to print them, or S to scan through the instruction record set. Next, enter the 4-digit program number of the G081 program being researched in the PROGRAM field and press the ENTER key. Execution instructions will now appear on the screen.

1.6. Graphical User Interface (GUI). At this time, there are 3 GUIs available in the G081 system with respect to automated forms. Using these tools, you can run Programs 9032 for AFTO Forms 781A and 781K, 9032B for AFTO Form 2430, and 9032G for AFTO Form 781J. GUI screens are built in a Windows environment and are designed to be easy to understand and navigate. You will notice that they are a lot like programs found on the Internet, in that they have interactive pop-up and drop-down selection windows that make entering data a point-and-click operation. Contact your local G081 Manager for access to these programs.

Chapter 2

AIRCRAFT FORMS

2.1. General Information on AFTO Form 781A Maintenance Discrepancy and Work Document and AFTO Form 781K Aerospace Vehicle Inspection Engine Data, Calendar Inspection, and Delayed Discrepancy Document. Both aircrew and maintenance personnel document discrepancies that effect the aircraft's status using AFTO Form 781A. ***NOTE***: Battle damage is recorded in accordance with TO 1-1H-39, *General Aircraft Battle Damage Repair*. The information contained on this form combined with data from any on board maintenance recording systems such as the C-5 Malfunction, Detection, Analysis and Recording System (MADARS) reflect the condition of the aircraft.

2.2. Documenting Discrepancies. Program 9032 permits you to print out a complete set of AFTO Forms 781A and K for a given aircraft. You also have the option of printing blank AFTO Forms 781A and K. Detailed information concerning all the requirements associated with the completion of the AFTO Form 781A and K are provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents.*

2.2.1. Normally, in-flight discrepancies are entered in Programs 9040 or 9050 during debriefing. The individual discovering the condition also enters discrepancies found between flights in one of these programs. Use Program 9032 to print either a completed or blank AFTO form 781A.

2.3. Documenting Inspection Requirements and Delayed Discrepancies. AFTO Form 781K provides a listing of when inspections are required and a listing of discrepancies that have been delayed. Normally, delayed discrepancies are ones which can be better accomplished during a major inspection, or they have been delayed due to required parts being on backorder. Use program 9032 to print either a completed or blank AFTO form 781K.

2.4. Producing AFTO Forms 781A and 781K. Program 9032 will only print the forms that you request. You may not make changes to the actual write-ups in the forms. In order to enter new write-ups, close out previous write-ups or transfer write-ups between the AFTO Form 781A and K, you must update other G081 programs.

2.4.1. If a change to one of the forms is required, one of the following programs must be selected: Use Program 9040 or 9050 to add or transfer a discrepancy, Program 9010 to closeout a discrepancy, Program 9020 to update flying time or, Program 9099 to take time for a given maintenance action. It should be noted that Program 9099 does not change any data effecting the write-ups in the forms, but must be accomplished to close out maintenance data documentation process within the G081 database. In most cases, Program 9099 must be completed prior to closing out a discrepancy using Program 9010.

2.4.2. Program 9032F is capable of printing an entire set of flying forms. Contact the local G081 Manager for access to this program.

2.5. Program 9032 Processing Instructions. To print completed or blank AFTO Form 781A or 781K, you must first access Program 9032 in the G081 system. The screen pictured in **Figure 2.1.** will be presented on the terminal. **Table 2.1.** lists all fields that are to be discussed in the instruction. The fields that require data in order for the program to process are highlighted in the table. Optional fields are explained

in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data.

Figure 2.1. Program 9032 Input Screen

```
MAMU9032  (F9032)  67061 REPORT REQUEST   KEY         DEST              DUPLEX
PARTS PAPER = (1, 2, 3-----ETC.)    _
AIRCRAFT TYPE BLANK  TYPE        CREATE DATES
 SERIAL  JOBS PAGES BLANKS RED-X START  STOP

________  _    __     _      _   ______ ______
________  _    __     _      _   ______ ______
________  _    __     _      _   ______ ______
________  _    __     _      _   ______ ______
________  _    __     _      _   ______ ______

INSTRUCTIONS:
   1. TYPE A 2-DIGIT KEY
   2. TYPE IN PRINTER DESTINATION; "Y" FOR DUPLEX PRINT
   3. TYPE AN 8-DIGIT AIRCRAFT SERIAL NUMBER OR "BLANKS  " FOR BLANK FORMS
   4. IN "TYPE JOBS": "A" FOR 781A, "K" FOR 781K, OR BLANK FOR BOTH
   5. LEAVE BLANK OR TYPE 00-99 FOR PAGES OF BLANK FORMS AT END OF LISTING, OR
      OR NUMBER OF BLANK PAGES OF 781A OR 781K FORMAT TYPED IN "TYPE BLANKS"
   6. TYPE BLANK FORMS DESIRED ("A" OR "K")
   7. TYPE "Y" FOR RED-X DISCREPANCIES ONLY (ISO AIRCRAFT ONLY)
   8. SELECT DISCREPANCIES BY DATE CREATED RANGE, START & STOP(MMDDYY FORMAT)
      LEAVE DATES BLANK TO SELECT ALL.
```

Table 2.1. Program 9032 Data Entry Fields.

1). KEY	6). TYPE JOBS
2). DEST	7). BLANK PAGES
3). DUPLEX	8). TYPE BLANKS
4). PAPER PARTS	9). RED-X
5). AIRCRAFT SERIAL	10). CREATE DATES

2.5.1. After accessing Program 9032, follow these steps:

2.5.1.1. Enter the KEY. This field requires a 2-position KEY, or access code that must be obtained through your local G081 Manager. Example: DG (typical key format).

2.5.1.2. Enter the DEST or leave BLANK. This field requires that you enter a valid printer name as a DESTINATION for the print command. A list of available printers can be obtained from you local G081 Manager. If left blank, G081 defaults to your associated printer.

2.5.1.3. Enter the DUPLEX or leave BLANK. Enter a Y to print on a duplex capable laser printer and leave BLANK for normal print.

2.5.1.4. Enter the PARTS PAPER or leave BLANK. This is the number of carbon copies the output should be printed on. If left BLANK, it will default to 1 copy.

2.5.1.5. Enter the AIRCRAFT SERIAL. This is the 8-position AIRCRAFT SERIAL NUMBER. The 6-position aircraft identification (ID) is not valid for this transaction. Skipping this field will generate blank forms. Example: 60000345 (serial number for a C-141 aircraft).

2.5.1.6. Enter the TYPE JOBS or leave BLANK. Enter an A for 781A or a K for 781K. If left blank, G081 will provide a report for both Forms 781A and 781K. Example: A (produces AFTO Form 781A).

2.5.1.7. Enter the BLANK PAGES. If you want blank Forms 781 at the end of the report, enter a number from 1 to 99 in this field. If no number is entered, no blank forms will be printed.

2.5.1.8. Enter the TYPE BLANKS or leave BLANK. If you entered a number in Step 7 for blank pages, you must enter the type of blank forms you want. Enter an A for Form 781A or a K for Form 781K.

2.5.1.9. Enter the RED-X or leave BLANK. This field is used to print the forms for an aircraft in Isochronal Inspection. Entering a Y selects only RED-X discrepancies. If left blank, all discrepancies will be printed.

2.5.1.10. Enter the CREATE DATE START/STOP or leave BLANK. You may select discrepancies by their creation date or, select a group of discrepancies created in a given time period. Enter a specific date or, the start and stop date parameters in the MMDDYY format. If left blank, all discrepancies will be printed. Example: START DATE: 081398 STOP DATE: 081998 (Creates a report spanning the dates indicated).

2.5.1.11. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

2.5.2. If your actions are accepted by G081, you will receive a message in the center of the screen that reads: "ACTIVITY-ACCEPTED-BATCH OPTION ACCEPTED FOR PROCESSING." At that time the AFTO Forms 781A or K for the aircraft you designated will be printed. **Figure 2.2.** represents an output for the AFTO Form 781A, while **Figure 2.3.** represents an AFTO Form 781K for the C-141 aircraft used in this example. **Figure 2.4.** represents an output for the AFTO Form 781A, while **Figure 2.5.** represents an AFTO Form 781K. **Figure 2.6.** shows an Isochronal RED-X discrepancy on AFTO Form 781A.

Figure 2.2. Completed AFTO Form 781A

PCN:67061 DATE FROM: 2000/05/25 TO: ____/__/__ AFTO FORM 781A MDS: C005B SERIAL NUMBER: 85000004 PAGE 1 OF ___ PAGES

NOTE -- CREW CHIEF FOR ACFT 85000004 IS: WSB HELMICK, . ASSISTANT: SRA FELOWITZ *** 60AGS 60AMW T
RAVIS AFB CA 94535 ***GEN JCN 1032 *** DR CW 00038 SRA SHAFFER

NOTE ---FORMS TRANSCRIBED BY:_____ RANK:_____EMPR #:_____ DATE:_____

NOTE ---FORMS REVIEWED BY:_____ RANK:_____EMPR #:_____ DATE:_____

NOTE -----ENGINE INDEX BOLTS INSTALLED AS FF: #1(S/N441397) BOLT #23; #2(S/N441487) BOLT #12; #3(S/N44
1065) BOLT #6 AND #4(S/N441613) BOLT #30.

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
/ /	0167864	J	2000/01/16	TAG#4AA1597 FAI OLD INST	91AAR	4AA1597		

FAULT CODE: | DATE C/W: / / | STA CODE:

DISCREPANCY:
MAWE -#2 HATCH LIFERAFT EJECTION PLATFORM DELAMINATE
D

CORRECTIVE ACTION:

SUPPLY INFORMATION: QTY REQ:
NO REQUISITIONS THIS JCN

CORRECTED/TRANS BY: EMP NO:
INSPECTED BY: EMP NO:

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
/ /	0167864A	J	2000/02/04	FAI OLD PLATFORM INSTALLE	91AAR			

FAULT CODE: | DATE C/W: / / | STA CODE:

DISCREPANCY:
MAWE -#2 HATCH LIFERAFT EJECTION PLATFORM DELAMINATE
D

CORRECTIVE ACTION:

SUPPLY INFORMATION: QTY REQ:
NO REQUISITIONS THIS JCN

CORRECTED/TRANS BY: EMP NO:
INSPECTED BY: EMP NO:

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
/ /	0341305	D	2000/02/03		12CAP			

FAULT CODE: | DATE C/W: / / | STA CODE:

DISCREPANCY:
AMES -PALLET POSITION #10 OUTBD LOCK BROKEN (F/S 83
6 RT)

CORRECTIVE ACTION:

SUPPLY INFORMATION: QTY REQ:
NO REQUISITIONS THIS JCN

CORRECTED/TRANS BY: EMP NO:
INSPECTED BY: EMP NO:

Figure 2.3. Completed AFTO Form 781K

PCN:67061 DATE FROM: 2000/05/25 TO: ____/__/__ AFTO FORM 781K MDS: C005B SERIAL NUMBER: 85000004 PAGE 1 OF ___ PAGES

GENERAL AIRCRAFT DATA

STATION OF ASSIGNMENT = TRAVIS AFB, CALIF DATE OF ASSIGNMENT = 1986/01/01 ASSIGN WING = 0060
STATION OF POSSESSION = TRAVIS AFB, CALIF TIME/DATE OF POSSESSION = 1500 1999/09/17

AIRCRAFT INSPECTION STATUS

ISO INSP LAST: 1999/12/08 ISO NEXT DUE: 2001/01/31 NEXT ISO SCHEDULED: UNK TOTAL # OF ISO: 18
105 HSC LAST: 1999/12/08 105 HSC NXT: 2000/03/22 NEXT PDM: 2000/12/02

ENGINE DATA

ENGINE #1 SERIAL NUMBER: 441397 ENGINE #1 DUE CHANGE @ N/A

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S FOR ENGINE 441397

TCTO NUMBER	TCTO RELEASE DATE	NOMENCLATURE	GROUND DATE/TIME	XFER BY EMP NUM
2J-TF39-703	1995/07/01	MOD LPT STATOR INTERFCAE BOLT& SEAL	2001/07/01	
2J-TF39-711	1994/06/01	LPT T/CASE COOLING MOD,TF39 ENGINE	2000/05/31	
2J-TF39-728	1990/06/01	IMPROVED HIGH PRESSURE TURBINE STG.	2000/06/29	
2J-TF39-729	1990/06/01	IMPROVED CDP ROTATING AIR SEAL	2000/06/29	
2J-TF39-756	1997/11/21	INSTALL OF STRUT ON VAPOR BARRIER	2001/11/21	

ENGINE #2 SERIAL NUMBER: 441487 ENGINE #2 DUE CHANGE @ N/A

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S FOR ENGINE 441487

TCTO NUMBER	TCTO RELEASE DATE	NOMENCLATURE	GROUND DATE/TIME	XFER BY EMP NUM
2J-TF39-703	1995/07/01	MOD LPT STATOR INTERFCAE BOLT& SEAL	2001/07/01	
2J-TF39-711	1994/06/01	LPT T/CASE COOLING MOD,TF39 ENGINE	2000/05/31	
2J-TF39-755	1997/10/15	INSTALL HT90 COMPONENT, TF39 ENGINE	2002/10/16	

ENGINE #3 SERIAL NUMBER: 441065 ENGINE #3 DUE CHANGE @ N/A

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S FOR ENGINE 441065

TCTO NUMBER	TCTO RELEASE DATE	NOMENCLATURE	GROUND DATE/TIME	XFER BY EMP NUM
2J-TF39-703	1995/07/01	MOD LPT STATOR INTERFCAE BOLT& SEAL	2001/07/01	
2J-TF39-711	1994/06/01	LPT T/CASE COOLING MOD,TF39 ENGINE	2000/05/31	
2J-TF39-755	1997/10/15	INSTALL HT90 COMPONENT, TF39 ENGINE	2002/10/16	

ENGINE #4 SERIAL NUMBER: 441141 ENGINE #4 DUE CHANGE @ N/A

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S FOR ENGINE 441141

TCTO NUMBER	TCTO RELEASE DATE	NOMENCLATURE	GROUND DATE/TIME	XFER BY EMP NUM
2J-TF39-703	1995/07/01	MOD LPT STATOR INTERFCAE BOLT& SEAL	2001/07/01	
2J-TF39-756	1997/11/21	INSTALL OF STRUT ON VAPOR BARRIER	2001/11/21	

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S

TCTO NUMBER	TCTO RELEASE DATE	NOMENCLATURE	GROUND DATE/TIME	XFER BY EMP NUM
1C-5-636	1996/05/17	INSP AIL HING FIT ATTACH HARDWARE	1999/05/18	
1C-5-632C	1997/12/15	INST DEFENSIVE SYS WITH ALE-47 CMDS	2001/12/15	
1C-5-684	1999/02/09	INSTALL NEW MADARS OFP	2000/02/09	
1C-5-690	1999/12/01	VYNAL LABEL OF FMS #3 BSIU	2000/12/01	
1C-5-703	2000/01/20	INSPECT OF O/B ELEVATOR CNTRL CABLE	2001/01/10	
1C-5-705	1999/09/02	OPS CK AFTER TCTO 1C-5-674	2001/02/04	

DELAYED DISCREPANCIES

PCN:67061 DATE FROM: 2000/05/25 TO: ___/__/__ AFTO FORM 781K MDS: C005B SERIAL NUMBER: 85000004 PAGE 2 OF ___ PAGES

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	008C675	1998/01/08	M	PARTS ON ORDER. SEE 8039	14		/ /

DISCREPANCY: MU1A -LT WING #7 SPOILER ACTUATOR ROD END WORN********(JOB C/W)**********

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	0167861	2000/01/16	J		44		/ /

DISCREPANCY: MU1A -SEVERAL RELIEF/COURIER COMPT. READING LIGHTS W/N ILLUMINATE

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	0206731	2000/01/20	H	J240FA00244090 BQ	44		/ /

DISCREPANCY: MU1A -CARGO COMP HAS 20 EA BAD CURB LIGHT ASSY

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	0346705	2000/02/04	J	PARTS ON ORDER. SEE 8039	13		/ /

DISCREPANCY: ARXX -#1 MLG TEMP BOLT INSTALLED ABOVE FED TRUNNION BEARING ON SUPPORT ARM

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	0346707	2000/02/04	J	J240FA00384004 BQ	09		/ /

DISCREPANCY: MU1A -PILOT AND COPILOT PITCH TRIM T HANDLE STENCIL LABEL WRONG

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

--SYM-----	JCN---------	DATE DISC-----	WDC---	DOC NO/OTHER INFO----------	SYSTEM--------	TAG--------	DATE C/W OR TRANS TO A--
/	0411304	2000/02/10	D	J240FA00424007 BQ	12		/ /

DISCREPANCY: MU1A -CREW LATRINE DOOR LATCH BROKEN

-SUPPLY INFORMATION----------	B/O	TNB	-TRANS / COMP OR VERIFIED BY----------	EMP NO--------
NO REQUISITIONS THIS JCN				

Figure 2.4. Blank AFTO Form 781K Output

```
PCN:67061  DATE FROM:      / /   TO: ____/__/__  AFTO FORM 781K  MDS:          SERIAL NUMBER:            PAGE     OF ___ PAGES


GENERAL AIRCRAFT DATA--------------------------------------------------------------------------------------------------------

STATION OF ASSIGNMENT =                                 DATE OF ASSIGNMENT =     / /              ASSIGN WING =
STATION OF POSSESSION =                                 TIME/DATE OF POSSESSION =          / /

AIRCRAFT INSPECTION STATUS-------------------------------------------------------------------------------------------------

  ISO INSP LAST:      / /   ISO NEXT DUE: UNK           NEXT ISO SCHEDULED: UNK                         TOTAL # OF ISO:   00
      HSC  LAST:      / /         HSC NXT:      / /                                                      NEXT PDM:       / /

URGENT ACTION AND OUTSTANDING ROUTINE TCTO'S-------------------------------------------------------------------------------

I-TCTO NUMBER---------TCTO RELEASE DATE-------NOMENCLATURE-----------------------GROUND DATE/TIME---XFER BY EMP NUM---------I
I --------------------------------------------------------------------------------------------------------------------------I
I--SYM-----JCN---------DATE DISC-----WDC---DOC NO/OTHER INFO---------------SYSTEM--------TAG--------DATE C/W OR TRANS TO A--I
I       I         I      / /     I     I                              I         I           I        /      /                I
I---------------------------------------------------------------------------------------------------------------------------I
I DISCREPANCY:                                                                                                              I
I                                                                                                                           I
I                                                                                                                           I
I-SUPPLY INFORMATION------------------------------------------I-TRANS / COMP OR VERIFIED BY-------GRADE-----EMP NO----------I
I                                                             I                              I       I                      I
I                                                             I                              I       I                      I
=============================================================================================================================
I--SYM-----JCN---------DATE DISC-----WDC---DOC NO/OTHER INFO---------------SYSTEM--------TAG--------DATE C/W OR TRANS TO A--I
I       I         I      / /     I     I                              I         I           I        /      /                I
I---------------------------------------------------------------------------------------------------------------------------I
I DISCREPANCY:                                                                                                              I
I                                                                                                                           I
I                                                                                                                           I
I-SUPPLY INFORMATION------------------------------------------I-TRANS / COMP OR VERIFIED BY-------GRADE-----EMP NO----------I
I                                                             I                              I       I                      I
I                                                             I                              I       I                      I
=============================================================================================================================
I--SYM-----JCN---------DATE DISC-----WDC---DOC NO/OTHER INFO---------------SYSTEM--------TAG--------DATE C/W OR TRANS TO A--I
I       I         I      / /     I     I                              I         I           I        /      /                I
I---------------------------------------------------------------------------------------------------------------------------I
I DISCREPANCY:                                                                                                              I
I                                                                                                                           I
I                                                                                                                           I
I-SUPPLY INFORMATION------------------------------------------I-TRANS / COMP OR VERIFIED BY-------GRADE-----EMP NO----------I
I                                                             I                              I       I                      I
I                                                             I                              I       I                      I
=============================================================================================================================
I--SYM-----JCN---------DATE DISC-----WDC---DOC NO/OTHER INFO---------------SYSTEM--------TAG--------DATE C/W OR TRANS TO A--I
I       I         I      / /     I     I                              I         I           I        /      /                I
I---------------------------------------------------------------------------------------------------------------------------I
I DISCREPANCY:                                                                                                              I
I                                                                                                                           I
I                                                                                                                           I
I-SUPPLY INFORMATION------------------------------------------I-TRANS / COMP OR VERIFIED BY-------GRADE-----EMP NO----------I
I                                                             I                              I       I                      I
I                                                             I                              I       I                      I
=============================================================================================================================
```

Figure 2.5. Blank AFTO Form 781A Output

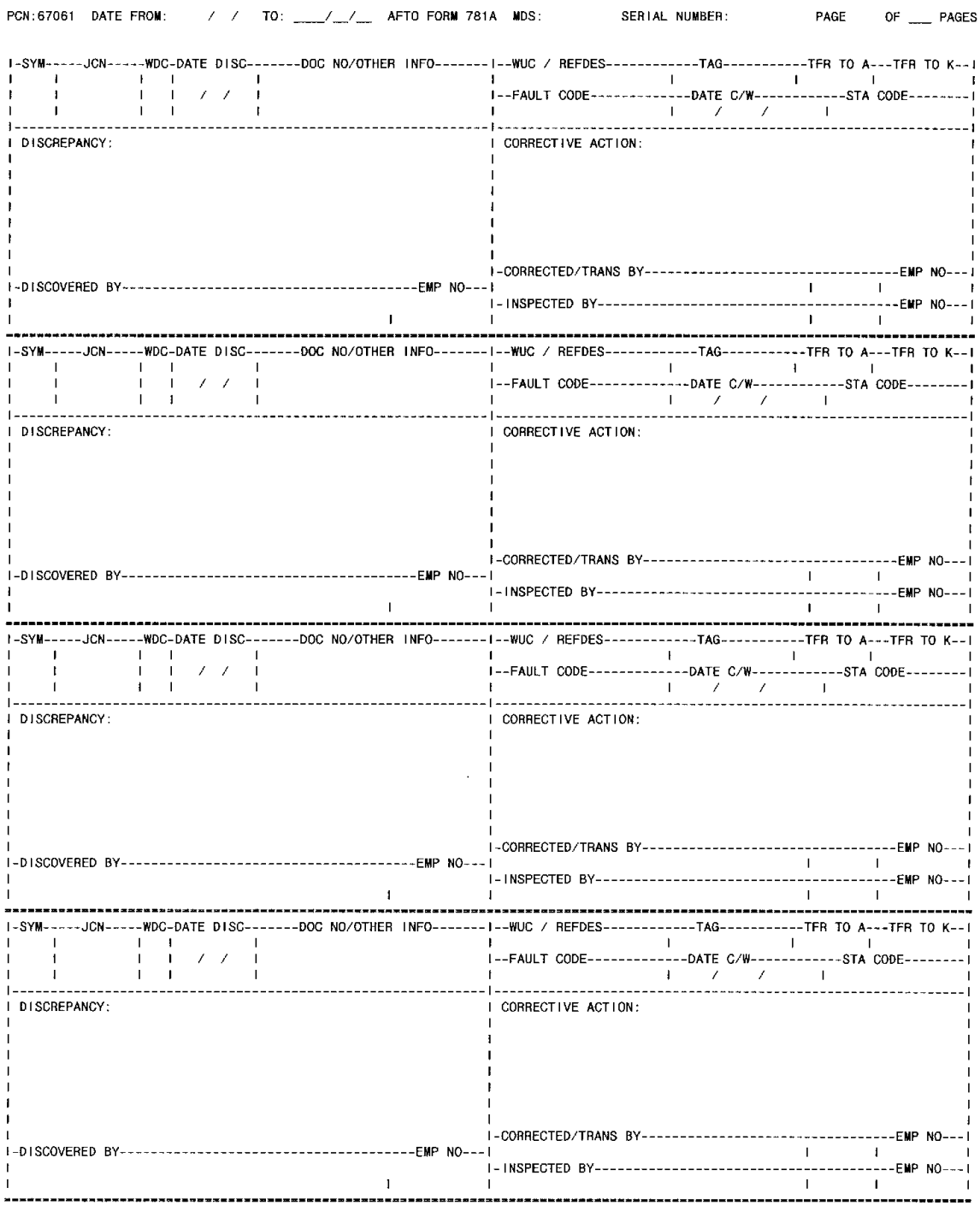
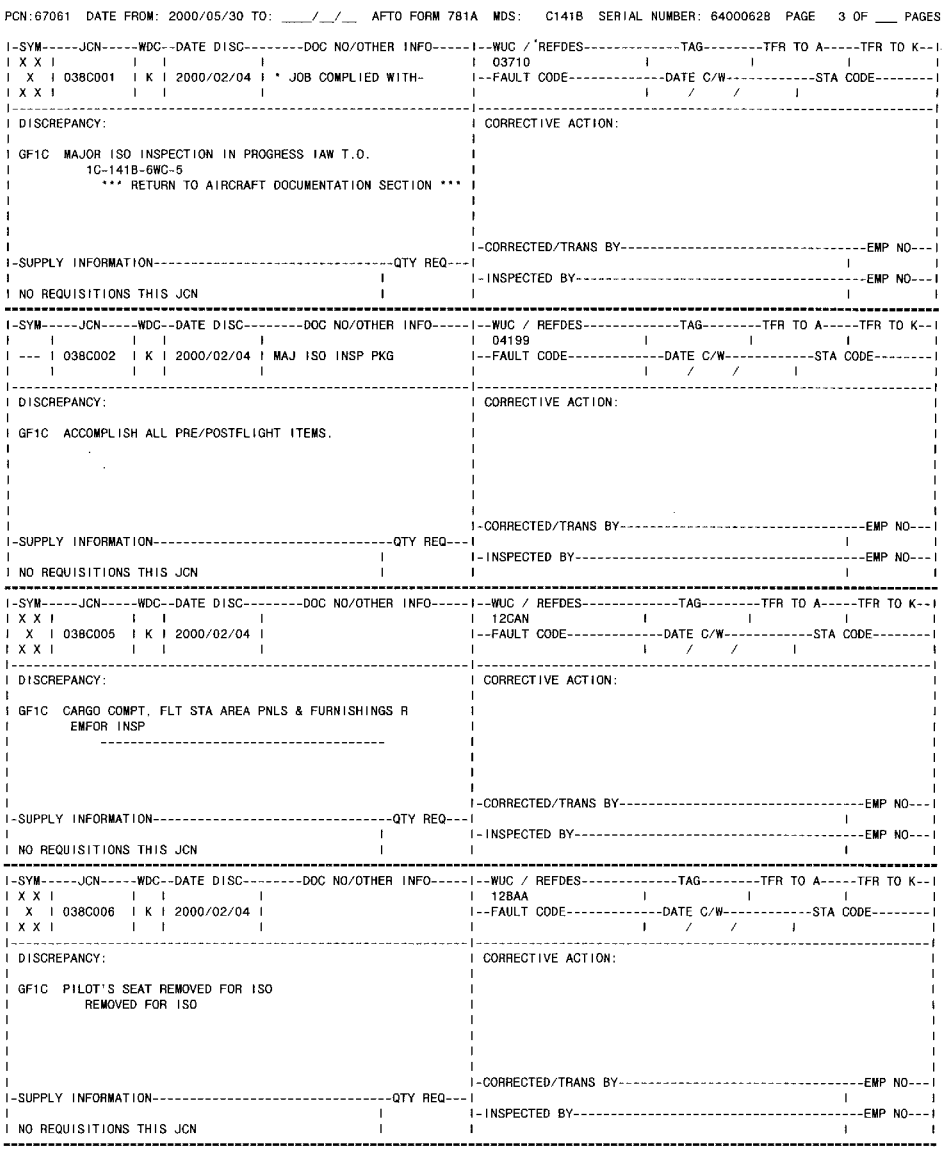


Figure 2.6. Blank 781A Output



PCN:67061 DATE FROM: 2000/05/30 TO: ____/__/__ AFTO FORM 781A MDS: C141B SERIAL NUMBER: 64000628 PAGE 3 OF ___ PAGES

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
X X					03710			
X	038C001	K	2000/02/04	* JOB COMPLIED WITH-	FAULT CODE	DATE C/W	STA CODE	
X X						/ /		

DISCREPANCY:

GF1C MAJOR ISO INSPECTION IN PROGRESS IAW T.O.
1C-141B-6WC-5
*** RETURN TO AIRCRAFT DOCUMENTATION SECTION ***

CORRECTIVE ACTION:

CORRECTED/TRANS BY ____ EMP NO ____

INSPECTED BY ____ EMP NO ____

SUPPLY INFORMATION ____ QTY REQ ____

NO REQUISITIONS THIS JCN

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
					04199			
---	038C002	K	2000/02/04	MAJ ISO INSP PKG	FAULT CODE	DATE C/W	STA CODE	
						/ /		

DISCREPANCY:

GF1C ACCOMPLISH ALL PRE/POSTFLIGHT ITEMS.

CORRECTIVE ACTION:

CORRECTED/TRANS BY ____ EMP NO ____

INSPECTED BY ____ EMP NO ____

SUPPLY INFORMATION ____ QTY REQ ____

NO REQUISITIONS THIS JCN

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
X X					12CAN			
X	038C005	K	2000/02/04		FAULT CODE	DATE C/W	STA CODE	
X X						/ /		

DISCREPANCY:

GF1C CARGO COMPT, FLT STA AREA PNLS & FURNISHINGS R
EMFOR INSP

CORRECTIVE ACTION:

CORRECTED/TRANS BY ____ EMP NO ____

INSPECTED BY ____ EMP NO ____

SUPPLY INFORMATION ____ QTY REQ ____

NO REQUISITIONS THIS JCN

SYM	JCN	WDC	DATE DISC	DOC NO/OTHER INFO	WUC / REFDES	TAG	TFR TO A	TFR TO K
X X					12BAA			
X	038C006	K	2000/02/04		FAULT CODE	DATE C/W	STA CODE	
X X						/ /		

DISCREPANCY:

GF1C PILOT'S SEAT REMOVED FOR ISO
REMOVED FOR ISO

CORRECTIVE ACTION:

CORRECTED/TRANS BY ____ EMP NO ____

INSPECTED BY ____ EMP NO ____

SUPPLY INFORMATION ____ QTY REQ ____

NO REQUISITIONS THIS JCN

2.6. Closing Out Maintenance Actions to Update AFTO Form781A. Program 9010, *Discrepancy Completion*, provides the capability to close scheduled and unscheduled discrepancies against a particular aircraft. A Time Compliance Technical Order (TCTO) may also be closed out using this program as long as the Maintenance Data Documentation (MDD) action has been taken using Program 9099 with the appropriate how malfunction codes of 797, 798, or 801. You may also delete maintenance discrepancies as long as there is no open supply requisition against the Job Control Number. Up to 10 discrepancies can be closed at one time.

2.7. Processing Instructions for Program 9010. To close out write-ups, you must first access Program 9010 in the G081 system. The screen pictured in **Figure 2.7.** will be presented on the terminal. **Table 2.2.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to

increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 2.7. Program 9010 Input Screen

```
MAMU9010  A/C-SERID_____KEY
 JCN________JCNS      WUC/REFDES         ACTN   H/M     DATE      MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 JCN        JCNS      WUC/REFDES           ACTN   H/M     DATE       MOC DUE
 INSTRUCTIONS:
   A/C-SERID: ENTER THE SERIAL NUMBER OR ID OF ACFT ON WHICH JCN IS TO BE CLOSED
   KEY:       ENTER TWO DIGIT ACCESS KEY.
   JCN/JCNS:  ENTER JCN AND JCN SUFFIX (IF ANY) OF THE DISCREPANCY TO BE CLOSED.
   WUC/ACTN:  ENTER THE MDC CODING FOR THE PRIMARY WORK UNIT CODE, ACTION TAKEN
   H/M:       AND HOW MALFUNCTIONED ON THE JCN TO BE CLOSED.
   DATE:      ENTER THE JULIAN DATE (YYDDD) THE JCN WAS CLOSED, IF DIFFERENT
              FROM TODAY, OTHERWISE LEAVE BLANK.
   MOC DUE:   ENTER 'Z' TO CREATE A MOC DUE JOB FOR JCN BEING CLOSED
```

Table 2.2. Program 9010 Data Entry Fields.

1). A/C SERID 2). KEY 3). JCN 4). JCNS 5). WUC/REFDES	6). ACTN 7). H/M 8). DATE 9). MOC DUE

2.7.1. After accessing Program 9010, follow these steps:

2.7.1.1. Enter the A/C - serial indentification (SERID). Enter the 8-digit AIRCRAFT SERIAL NUMBER, or the 6-position IDENTIFICATION NUMBER assigned to the aircraft.

2.7.1.2. Enter the KEY or leave BLANK. This field requires a 2-position KEY, or access code, which is available through your local G081 Manager. The access KEY is used by the Maintenance Supply Liaison (MSL) and Documentation sections to close-out special discrepancies and to delete cannibalizations.

2.7.1.3. Enter the job control number (JCN). This is the 7- position JOB CONTROL NUMBER (JCN) that is assigned to this discrepancy. Up to 10 JCNs may be entered.

2.7.1.4. Enter job control number suffix (JCNS) or leave BLANK. If there is a JOB CONTROL NUMBER SUFFIX, enter it in this field. A suffix is used to add a continuation to a discrepancy and for certain types of inspections.

2.7.1.5. Enter the WUC/REFDES or leave BLANK. Enter a 5-digit WORK UNIT CODE or a 10-digit REFERENCE DESIGNATOR. The reference designator is unique to the C-17 aircraft. If you are unsure about the correct work unit code (WUC) use the appropriate –06 manual for your Mission Design Series. It is imperative that the correct WUC is used. This field is only required if updating the WUC/REFDES that was originally entered.

2.7.1.6. Enter the ACTN or leave BLANK. This is the ACTION TAKEN CODE for the discrepancy you are closing. For a list of valid codes consult the appropriate –06 manual for your Mission Design Series. If left blank, inputs to Program 9099 will supply this data.

2.7.1.7. Enter the H/M or leave BLANK. This is the HOW MALFUNCTION CODE of the discrepancy you are closing. For a list of valid codes consult the appropriate –06 manual for your mission design series (MDS). If left blank, inputs to Program 9099 will supply this data.

2.7.1.8. Enter the DATE or leave BLANK. This is the YEAR and JULIAN DATE (YYDDD format) that the aircraft discrepancy was completed. This field is only required if the date completed is different from today's date.

2.7.1.9. Enter the MOC DUE or leave BLANK. The MAINTENANCE OPERATION CHECK DUE field is used if a Maintenance Operational Check (MOC) is required. Entering a Z in this field will create the MOC documentation. Entering a D will delete the JCN.

2.7.1.10. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

2.7.2. **Figure 2.8.** is an example of a Program 9010 output screen. Once G081 accepts the data, it will return the 9010 program back to you with an ACCEPTED message at the bottom of the screen. If G081 rejects your input, it will return a 9010 screen with an error message letting you know what fields must be corrected.

Figure 2.8. Completed Program 9010 Screen

```
MAMU9010  A/C-SERID 70000454   KEY__
 JCN 012C029  JCNS   WUC/REFDES 11311 ACTN Y  H/M 242   DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/ M      DATE            MOC DUE
 JCN          JCNS   WUC/REFDES       ACTN    H/M       DATE            MOC DUE

 BELOW IS A COPY OF YOUR MOST RECENT INPUT AND 69010 COMMENTS.
      ANY REJECTS ALSO APPEAR ABOVE FOR YOUR CORRECTION AND RESUBMISSION.

   JCN  SUF WUC/REFDES AT H/M DATE MOC

 012029                              ACCEPTED
```

2.8. Documenting Aircraft Discrepancies. Program 9050, *Input Aircraft Discrepancies*, provides the capability to add to, or change discrepancies in the automated AFTO Forms 781A and 781K files. Using the program, a user can scan aircraft discrepancy data, schedule aircraft discrepancies, and produce automated AFTO Forms 349. Additionally, it provides the capability to load and close-out off shore discrepancies.

2.9. Program 9050 Processing Instructions. To process or update aircraft discrepancies, you must first access Program 9050 in the G081 system. The screen pictured in **Figure 2.9.** will be presented on the terminal. **Table 2.3.**lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data.

2.9.1. Program 8035 *Event/Supply Workable Discrepancies* provides the capability to shift several discrepancies from Form 781A to Form 781K simultaneously. Although manipulating records for use in automated forms is not it's primary function, the capability does exist. Contact the local G081 Manager for assistance in this process.

Figure 2.9. Program 9050 Input Screen

```
MAMU9050  TRANS(A=ADD;C=CHANGE;S=SCAN)     WD     BASE       JOB IND(SEE NOTE)
SERID          JCN          JCN SUF     WUC/REF DES              A/T    HOW/MAL
SHOP        TYPE OF SHOP (R=RESP;A=ASSIST)    ASSOC JCN           STATUS CHG
TIME SPEC REQD       DATE SPEC REQD           ETJC       EDJC         WORK ZONE
DISCREPANCY


                  FAULT CODE            REPEAT/RECUR(R=REP;C=RECUR)     RCD-ACTION
TYPE DISC(A=781A;K=781K)                 CANN FOR A/C           MISSION SYMBL
INFO                               DATE DISCOVERED        350 TAG/SHOP
PRINT 349S:JC   SHOP   P&S    TNB   MY PR   ISO    ISO FMT  FLT   ENG    QA
EVENT ID   CONTINUE DESCRIPTION                          JOBSTD:MEN    HRS(HHT)
OFFSHORE DISC(X=YES)   ACCOMPLISHING BASE         DATE COMPLETED        KEY
RELIABILITY   CAT DISC   CARD NO       ITEM NO       WDC TYPE   SHOP



NOTE--  VALID ENTRIES FOR JOB IND FIELD ARE:
   NM = RED-X MAINTENANCE       NS = RED-X JOB WITH PARTS ON ORDER
   NG = RED / MAINTENANCE       NE=PMCS,RED / JOB WITH PARTS ON ORDER
   NO = NOTES (MUST HAVE 000 IN FIRST 3 OF JCN)
    IN = INSPECTION OR UNKNOWN CONDITION
   NR = NO SYMBOL REQUIRED
 TO INPUT CLOSED OFFSHORE DISC, THE ACCOMPLISHING BASE CODE, JULIAN DATE
 DISCOVERED AND JULIAN DATE COMPLETED ARE REQUIRED ENTRIES.
```

Table 2.3. Program 9050 Data Entry Fields.

1). TRANS	15). TIME SPEC REQD	29). PRINT 349S
2). WD	16). ETJC	30). EVENT ID
3). BASE	17). EDJC	31). CONTINUE DESC
4). JOB IND	18). WORKZONE	32). JOBSTD MEN HRS
5). SERID	19). DISCREPANCY	33). OFFSHORE DISC
6). JCN	20). FAULT CODE	34). ACCOMP BASE
7). JCN SUF	21). REPEAT/RECUR	35). DATE COMPLETED
8). WUC/REFDES	22). RCD-ACTION	36). KEY
9). A/T	23). TYPE DISC	37). RELIABILITY
10). HOW/MAL	24). CANN FOR A/C	38). CAT DISC
11). SHOP	25). MISSION SYMBL	39). CARD NO
12). TYPE OF SHOP	26). INFO	40). ITEM NO
13). ASSOC JCN	27). DATE DISCOVERED	41). WDC TYPE
14). STATUS CHG	28). 350 TAG/SHOP	42). SHOP

2.9.2. After accessing Program 9050, follow these steps:

2.9.2.1. Enter the TRANS. Select one of the TRANSACTION codes listed on the G081 screen.

2.9.2.2. Enter the when discovered (WD). The WHEN DISCOVERED CODE is a one-position field used to identify at what point in time the discrepancy was discovered. Use the applicable –06 *Code* manual to find the proper When Discovered Code for the discrepancy. ***NOTE***: If the WHEN DISCOVERED CODE you enter is an A, B, C, or D, you must enter a code in the RELIABILITY field. If the aircraft is within 4 hours of departure, the WD code will be forced to a B and require a reliability code entry.

2.9.2.3. Enter the BASE or leave BLANK. The BASE is not required for those discrepancies that occur at home station. If the aircraft is en route, enter the home station base code. A full list of these codes can be found in Program 8007. ***NOTE:*** Enter CCCC if location is classified or unknown.

2.9.2.4. Enter the JOB IND. The JOB INDICATOR is used to identify the condition of the aircraft. The coding is listed at the bottom of the G081 screen. Example: NM (RED-X maintenance).

2.9.2.5. Enter the SERID. Enter the 8-digit AIRCRAFT SERIAL NUMBER, or the 6-position IDENTIFICATION NUMBER assigned to the aircraft.

2.9.2.6. Enter the JCN. Enter the 7-position JOB CONTROL NUMBER that is assigned to the discrepancy. ***NOTE:*** When adding an aircraft note, the last four positions of the JCN must be selected from **Table 2.4.**.

Table 2.4. Aircraft Note JCN Restrictions.

Last 4 positions	Use
0100 – 0299	Notes placing restrictions on the aircraft.
0300 – 0599	Identifies system tests and special test equipment installation.
0600 –0999	Informational notes.

2.9.2.7. Enter the JCN SUF or leave BLANK. If there is a JOB CONTROL NUMBER SUFFIX enter it in this field. A suffix is usually used to add a continuation for your discrepancy if there is not enough space for the discrepancy in DESCRIPTION field. If you enter an X in the CONTINUE DISCREPANCY field, you must enter a suffix. Leave blank if there is no suffix.

2.9.2.8. Enter the WUC/REFDES. Input a 5-digit WORK UNIT CODE or a 10-digit REFERENCE DESIGNATOR. The reference designator is unique to the C-17 aircraft. If you are unsure about the correct WUC use the appropriate –06 manual for your Mission Design Series.

2.9.2.9. Enter the A/T or leave BLANK. This field is used for the ACTION TAKEN CODE. If you are adding a discrepancy, the action taken will not be known so you will leave this field blank. If you are making a change to an existing entry and the code is known, enter the code.

2.9.2.10. Enter the HOW/MAL or leave BLANK. This field is used to record the HOW MALFUNTION CODE. The aircraft mechanic will input the correct code when processing Program 9099 to take time for the discrepancy. This field is used only if you are entering an off-shore discrepancy or a cannibalization.

2.9.2.11. Enter the SHOP. This is the mnemonic of the SHOP that will perform the work on the aircraft.

2.9.2.12. Enter the TYPE OF SHOP or leave BLANK. If left blank, G081 will default to an R for "responsible shop." If the discrepancy is to be sent to an assisting shop, enter an A. ***NOTE:*** On assist jobs, the suffix is automatically entered by G081.

2.9.2.13. Enter ASSOC JCN or leave BLANK. If the discrepancy that you are inputting is related to another JCN, input the ASSOCIATED JOB CONTROL NUMBER in this field, otherwise leave blank.

2.9.2.14. Enter the STATUS CHG or leave BLANK. When adding or changing a discrepancy, and the status of the aircraft is effected, enter a Y in this field. This action will cause a pre-filled Program 9018, *Aircraft Arrival and Departure Update Input* screen to appear after you are finished processing Program 9050 and allow the aircraft status to be altered.

2.9.2.15. Enter the TIME SPEC REQD or leave BLANK. The TIME SPECIALIST REQUIRED field is only required for inputting a cannibalization or scheduling a suppressed discrepancy.

2.9.2.16. Enter the DATE SPEC REQD or leave BLANK. The DATE SPECIFICALLY REQUIRED field is only required for inputting a cannibalization or scheduling a suppressed discrepancy.

2.9.2.17. Enter the estimated time job completion (ETJC) or leave BLANK. The ESTIMATED TIME JOB COMMISSION field is only required for inputting a cannibalization or scheduling a suppressed discrepancy.

2.9.2.18. Enter the estimated date job complete (EDJC) or leave BLANK. The ESTIMATED DATE JOB COMPLETION field is only required for inputting a cannibalization or scheduling a suppressed discrepancy.

2.9.2.19. Enter the WORK ZONE or leave BLANK. If you have WORK ZONES established for your aircraft, enter the zone in this field. Normally these are used by isochronal inspection (ISO) and REFURB activities.

2.9.2.20. Enter the DISCREPANCY. The DISCREPANCY should describe, in detail, the maintenance problem the aircraft is experiencing.

2.9.2.21. Enter the FAULT CODE or leave BLANK. The FAULT CODE is an optional field that is used for C5 and C17 aircraft only.

2.9.2.22. Enter the REPEAT/RECUR or leave BLANK. This field is used to tag the discrepancy as a REPEAT or RECURRING. A Repeat discrepancy is a malfunction in a system or subsystem that reappears on the next sortie (or attempted sortie) following its first appearance. A Recurring discrepancy is a malfunction in a system or subsystem that reappears on the third, fourth, or fifth sortie (or attempted sortie) following its first appearance. Enter an R for REPEAT, a C for RECUR, or leave blank for all others.

2.9.2.23. Enter the RCD-ACTION or leave BLANK. In the RECORD-ACTION field, enter a 1 when a discrepancy requires MDD before it can be closed out (cannibalization), a 2 when a discrepancy requires MDD and Prints 349, or a 3 when a discrepancy indicates an in flight engine shutdown. Option 3 is automatic and can not be blanked out.

2.9.2.24. Enter the TYPE DISC or leave BLANK. Enter an A for 781A write-up, or a K for a 781K write-up in the TYPE DISCREPANCY field. If left blank G081 will default to A.

2.9.2.25. Enter the Cannibalization (CANN) FOR A/C or leave BLANK. This only applies to CANNIBALIZATION actions. Enter the receiving aircraft serial number.

2.9.2.26. Enter the MISSION SYMBL. This is an OBSOLETE field. Leave blank.

2.9.2.27. Enter the information (INFO) or leave BLANK. Other G081 programs use the INFORMATION field. The other programs update this field, listing certain notes, which may be of interest to the user. An example is Program 9092 that updates this field with supply information.

2.9.2.28. Enter the DATE DISCOVERED or leave BLANK. The DATE DISCOVERED field is an optional field used when the discrepancy occurred at a base other than home station. Enter the date that the discrepancy was discovered.

2.9.2.29. Enter the 350 TAG/SHOP or leave BLANK. Enter the AFTO Form 350 TAG number and the SHOP that created the AFTO Form 350 TAG. This field is for off equipment jobs.

2.9.2.30. Enter the REQ 349 or leave BLANK. This field is used if you want to print an automated AFTO Form 349. Place an X in the corresponding fields where you desire Forms 349 sent.

2.9.2.31. Enter the EVENT ID or leave BLANK. The EVENT IDENTIFICATION is a one position maintenance identifier.

2.9.2.32. Enter the CONTINUE DISCREPANCY, if required, or leave BLANK. Place an X in this field if you need to add more information to your discrepancy. After you press the ENTER key G081 will automatically put the note **CONTINUATION JCN**" in the INFO block when the screen returns. You would now type in a JOB INDICATOR and the SHOP MNENOMIC. Next, enter A in the JCN suffix and in the TYPE SHOP fields, type the remaining discrepancy in the discrepancy block and press the ENTER key. If at this point you still need to expand on the discrepancy you would repeat the above steps but change the JCN SUFFIX to a B. If no additional information is required then leave blank.

2.9.2.33. Enter the JOBSTD:MEN HRS(HHT) or leave BLANK. A JOB STANDARD is a 3-digit field that designates the number of people it takes to complete certain types of discrepancies along with the number of MAN-HOURS.

2.9.2.34. Enter the OFFSHORE DISC or leave BLANK. This field is used only if you are loading a discrepancy that occurred and was completed away from home station. You would follow the normal procedures outlined in the previous steps for creating a new discrepancy but you will enter data in the A/T, How/Mal fields and the corrective action in the INFO field.

2.9.2.35. Enter the ACCOMPLISHING BASE or leave BLANK. If you entered a discrepancy in OFFSHORE DISC, enter the BASE where the job was completed. Use CCCC if location is classified.

2.9.2.36. Enter the DATE COMPLETED or leave BLANK. If you entered a discrepancy in OFFSHORE DISC, enter the Julian date the job was completed.

2.9.2.37. Leave the KEY field BLANK. This field is now obsolete and no entry is required.

2.9.2.38. Enter the RELIABILITY. If the When Discovered Code was an A, B, C, or D, a RELIABILITY code must be entered. It is imperative that you enter the correct code because system

reliability is an indicator that is tracked and reported to management on a regular basis. Enter a 2 to describe minor defects, a 3 to describe a system failure resulting in an aircraft PMC condition, a 4 to describe a failure resulting in an air abort, a 5 when the failed system is inoperative, or a 6 when the failure resulted in an aircraft NMC condition. ***NOTE:*** If the When Discovered Code is C, the RELIABILITY code must be 3. If the When Discovered Code is A, B or D, and the JOB IND is NM or NS, the RELIABILITY code must be 3 or 6. If the When Discovered Code is A, B or D, and the JOB IND is NG or NE, the RELIABILITY code must be 2 or 3.

2.9.2.39. Enter the CAT DISC or leave BLANK. The CATEGORY DISCOVERED field is used by Quality Assurance.

2.9.2.40. Enter the CARD NO or leave BLANK. This field is used by Quality Assurance and is for the INSPECTION CARD NUMBER.

2.9.2.41. Enter the ITEM NO or leave BLANK. This field is used by Quality Assurance and is for the ITEM NUMBER.

2.9.2.42. Enter the WDC TYPE or leave BLANK. This field identifies the When Discovered Code type and is used by Quality Assurance.

2.9.2.43. Enter the SHOP or leave BLANK. The SHOP field is used by Quality Assurance.

2.9.2.44. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

2.9.3. **Figure 2.10.** is an example of the output from a Program 9050 entry. Once G081 accepts the data, it will return the Program 9050 input screen back to you with an ACTIVITY ACCEPTED message in the middle of the screen. If G081 rejects your input, it will return the screen with an error message indicating which fields must be corrected.

Figure 2.10. Completed Program 9050 Screen

```
MAMU9050  TRANS(A=ADD;C=CHANGE;S=SCAN) A  WD F  BASE XDAT JOB IND(SEE NOTE)
SERID QA0454   JCN 012C029 JCN SUF    WUC/REF DES  41AEB       A/T   HOW/MAL
SHOP       TYPE OF SHOP (R=RESP;A=ASSIST)   ASSOC JCN          STATUS CHG
TIME SPEC REQD      DATE SPEC REQD          ETJC      EDJC        WORK ZONE
DISCREPANCY    TEMPERATURE INDICATOR FLUXUATES.


                 FAULT CODE           REPEAT/RECUR(R=REP;C=RECUR)    RCD-ACTION
TYPE DISC(A=781A;K=781K) A             CANN FOR A/C          MISSION SYMBL
INFO                              DATE DISCOVERED       350 TAG/SHOP
PRINT 349S:JC   SHOP   P&S    TNB   MY PR   ISO    ISO FMT  FLT   ENG    QA
EVENT ID   CONTINUE DESCRIPTION                        JOBSTD:MEN    HRS(HHT)
OFFSHORE DISC(X=YES)   ACCOMPLISHING BASE        DATE COMPLETED       KEY
RELIABILITY   CAT DISC   CARD NO      ITEM NO      WDC TYPE   SHOP

  ACTIVIY ACCEPTED.
                 41AEB          INDICATOR, TEMPERATURE

NOTE--  VALID ENTRIES FOR JOB IND FIELD ARE:
   NM = RED-X MAINTENANCE      NS = RED-X JOB WITH PARTS ON ORDER
   NG = RED / MAINTENANCE      NE=PMCS,RED / JOB WITH PARTS ON ORDER
   NO = NOTES (MUST HAVE OOO IN FIRST 3 OF JCN)
   IN = INSPECTION OR UNKNOWN CONDITION
   NR = NO SYMBOL REQUIRED
 TO INPUT CLOSED OFFSHORE DISC, THE ACCOMPLISHING BASE CODE, JULIAN DATE
 DISCOVERED AND JULIAN DATE COMPLETED ARE REQUIRED ENTRIES.
```

2.10. General Information on Automated AFTO Form 781J, Aerospace Vehicle Engine Flight Document. The AFTO Form 781J provides a status of the operating time, engine cycles and oil added to installed aircraft engines. Updates to the AFTO Form 781J are accomplished based on flying time, engine cycles and oil changes or adding of oil. Detailed information concerning all the requirements associated with the completion of the AFTO Form 781J is provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents.*

2.11. Documenting Engine Hours. Program 9032G permits you to print out an AFTO Form 781J for a specific aircraft, all aircraft of a particular MDS, all aircraft possessed or assigned to a base, or print blank forms.

2.12. Producing AFTO Form 781J. This program produces the form requested but can not be used to alter or update the form. Normally, changes to AFTO Form 781J are driven by flying time and inspection requirements and are updated using Program 9020, *Flying Hour, Gear Cycle, and Engine Cycle Data Input.* Program 9020 is detailed in **Chapter 5**, *Supplemental Programs.* It is also important to remember that not all personnel have access to every program. Only certain functions have access to input, change or delete information in the database. In most cases you will need to contact your Plans, Scheduling and Documentation section or your G081 Manager.

2.13. Program 9032G Processing Instructions. To review or print an AFTO Form 781J, you must first access Program 9032G in the G081 system. The screen pictured in **Figure 2.11.** will be presented on the terminal. **Table 2.5.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data.

Figure 2.11. Program 9032G Input Screen

```
MAMU9032  (F9032G) 67099 (781J FORM) REQUEST  KEY    DEST      DUPLEX
 COPIES       NBR PAGES OF BLANK FORMS     BLANK FORMS ONLY
 REQUESTING BASE      BASE OPTION      ASSIGNED A/C   MDS
 A/C SER

 INSTRUCTIONS:
 1. TYPE IN ACCESS KEY; PRINTER DESTINATION; "Y" FOR DUPLEX PRINT
 2. TYPE NUMBER OF COPIES OF REPORT DESIRED IN "COPIES"
 3. TYPE NBR BLANK FORMS DESIRED, "00" - "99" PAGES
    TYPE "Y" IN "BLANK FORMS ONLY" IF YOU WANT JUST BLANKS
 3. TYPE IN YOUR BASE CODE. (USED TO GET LOCAL TIME)
 5. IF THE REQUEST IS FOR A SINGLE AIRCRAFT OR MORE,
    TYPE IN THE 8 DIGIT AIRCRAFT SERIAL NUMBERS
 6. IF A 781J IS REQUIRED FOR EVERY AIRCRAFT AT A BASE, TYPE IN THE BASE
    CODE REQUIRED IN "BASE OPTION" AND SPACES IN AIRCRAFT SERIALS AND
   A. BLANK IN "ASSIGNED A/C" FOR ALL POSSESSED AIRCRAFT OR
   B. "Y"   IN "ASSIGNED A/C" FOR ALL ASSIGNED  AIRCRAFT
   C. MDS DESIRED IN "MDS": BLANK FOR ALL, "C005 " FOR ALL C5, "C005A" FOR C5A,
      "C005B" FOR C5B, "C005C" FOR C5C, "C010 " FOR KC010, "C017A" FOR C17A,
      "C135 " FOR ALL C135, "C135E"  "C135Q"  "C135R"  "C135T" FOR C135 MODELS
 NOTE:  IF BOTH AIRCRAFT SERIAL NUMBER AND BASE OPTION ARE FILLED IN
        THE BASE WILL BE IGNORED AND AN AIRCRAFT REPORT PRODUCED
```

Table 2.5. Program 9032G Data Entry Fields

1). KEY	7). REQUESTING BASE
2). DEST	8). BASE OPTION
3). DUPLEX	9). ASSIGNED A/C
4). COPIES	10). MDS
5). NUMBER OF BLANK FORMS	11). A/C SER
6). BLANK FORMS ONLY	

2.13.1. After Accessing Program 9032G, follow these steps:

2.13.1.1. Enter the KEY. This field requires a 2-position KEY, or access code, which is available through your local G081 Manager. Example: SL (typical key format).

2.13.1.2. Enter the DEST or leave BLANK. This field requires that you enter a valid printer name as a DESTINATION for the print command. A list of local available printers can be obtained from your local G081 Manager. If left blank, G081 defaults to your associated printer.

2.13.1.3. Enter the DUPLEX or leave BLANK. Enter a Y to print on a laser printer or, leave blank for normal print.

2.13.1.4. Enter the number of COPIES or leave BLANK. This field specifies the number of forms to be printed. If left blank, G081 will default to 1 copy.

2.13.1.5. Enter the NUMBER OF BLANK FORMS or leave BLANK. Leave blank if no blank forms are required. You may enter 01 through 99 for the number of blank forms desired.

2.13.1.6. Enter a Y in the BLANK FORMS ONLY or leave BLANK. Process this option only if you want to print blank forms or, leave blank for none.

2.13.1.7. Enter the REQUESTING BASE code or leave BLANK. The REQUESTING base code is a 4-position code for the base that possessed the aircraft at the time of the mission. This is used to add local operating time to the forms. Base codes are listed in Program 8007. If left blank, G081 will default to the base that currently possesses the aircraft.

2.13.1.8. Enter the BASE OPTION or leave BLANK. If you are requesting AFTO Form 781J forms for all aircraft on base you must enter the BASE code. ***NOTE:*** If using this option you must leave the A/C SERIAL NUMBER field blank and enter the Mission, Design, Series (MDS) in step 2.13.1.10.

2.13.1.9. Enter the ASSIGNED A/C or leave BLANK. Enter a Y if you are requesting Form 781J all assigned aircraft. Leave blank if you are requesting Form 781J for all possessed aircraft.

2.13.1.10. Enter the MDS or leave BLANK. This field identifies the MISSION DESIGN SERIES (MDS) of the aircraft you are processing the 781J for. It is a 4- or 5-character field, depending upon which group of aircraft you are processing. If you are processing this screen for blank forms only or, for a specific aircraft (as in step 2.1.13.11) or, if you desire a Form 781J for all aircraft at your base, you may leave this field blank. Example: C005 (for all C-5 aircraft) or C005A (for C-5A only).

2.13.1.11. Enter the A/C SER. This field is the 8-digit AIRCRAFT SERIAL NUMBER and is used only when processing a form 781J for a specific aircraft. The 6-position aircraft ID is not valid for this transaction. Example: 66000159 (aircraft serial number).

2.13.1.12. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

2.13.2. If your actions are accepted by G081 you will receive a message in the center of the screen that reads: "ACTIVITY-ACCEPTED-BATCH OPTION ACCEPTED FOR PROCESSING." At that time the AFTO Forms 781J write-ups for the aircraft option you selected will be printed. **Figure 2.12.** is an example of an automated Form 781J that was processed for a specific aircraft. **Figure 2.13.** is an example of a blank Form 781J.

Figure 2.12. Program 9032G AFTO Form 781J Example

PCN: 67099 DATE FROM: 2000/06/01 TO ____/__/__ AFTO FORM 781J MDS: C005B SERIAL NUMBER: 85000004 PAGE 1 OF ___ PAGES

POSITION TYPE/MFG/MOD SERIAL NUMBER ID NUMBER INSTAL LST OIL LEFT/5

POSITION TYPE/MFG/MOD SERIAL NUMBER ID NUMBER INSTAL LST OIL RIGHT/6

	NO. 1 POSITION	NO. 2 POSITION	NO. 3 POSITION	NO. 4 POSITION
ENG TIME AT ENG OIL CHANGE	5428	4172	1058	575
MADARS BOLT NUMBER	23	12	06	30

DATE FLOWN	HOURS FLOWN	CUMULATIVE AIRFRAME HOURS	CUM GEAR CYCLES	DUE CHG N/A ENG S/N 441397/C TIME	CYLS	OIL	DUE CHG N/A ENG S/N 441487/C TIME	CYLS	OIL	DUE CHG N/A ENG S/N 441065/C TIME	CYLS	OIL	DUE CHG N/A ENG S/N 441141/C TIME	CYLS	OIL	TOTAL LDGS	FULL STOP LDGS
2000/01/20	2.7	12553.2	7162	7569.1	002421	000	6412.4	001754	000	3060.4	001080	000	2975.0	000801	000	6979	2908
2000/01/22	5.9	12559.1	7163	7575.0	002423	000	6418.3	001756	000	3066.3	001082	000	2980.9	000803	000	6980	2909
2000/01/24	5.4	12564.5	7164	7580.4	002425	000	6423.7	001758	000	3071.7	001084	000	2986.3	000805	000	6981	2910
2000/01/26	6.0	12570.5	7166	7586.4	002427	000	6429.7	001760	000	3077.7	001086	000	2992.3	000807	000	6983	2912
2000/01/28	2.9	12573.4	7167	7589.3	002428	000	6432.6	001761	000	3080.6	001087	000	2995.2	000808	000	6984	2913
2000/02/02	2.3	12575.7	7168	7591.6	002429	000	6434.9	001762	000	3082.9	001088	000	2997.5	000809	000	6985	2914
2000/02/03	3.6	12579.3	7170	7595.2	002431	000	6438.5	001764	000	3086.5	001090	000	3001.1	000811	000	6987	2916
2000/02/07	3.0	12582.3	7171	7598.2	002432	000	6441.5	001765	000	3089.5	001091	000	3004.1	000812	000	6988	2917
2000/02/09	7.1	12589.4	7173	7605.3	002434	000	6448.6	001767	000	3096.6	001093	000	3011.2	000814	000	6990	2919
2000/02/10	4.2	12593.6	7174	7609.5	002435	000	6452.8	001768	000	3100.8	001094	000	3015.4	000815	000	6991	2920

* *

* AMC FORM-89 ENTRY DATA ACFT *

* ACFT LOG NO HOURS AGS *

* EFFECTIVE DATE - 2000/06/01 004 00024 12594 060 *

* *

Figure 2.13. Program 9032G Blank 781J Example

PCN: 67099 DATE FROM: 2000/06/01 TO ____/__/__ AFTO FORM 781J MDS: C005B SERIAL NUMBER: 85000004 PAGE 1 OF ___ PAGES

POSITION TYPE/MFG/MOD SERIAL NUMBER ID NUMBER INSTAL LST OIL POSITION TYPE/MFG/MOD SERIAL NUMBER ID NUMBER INSTAL LST OIL

NO. 1 POSITION NO. 2 POSITION NO. 3 POSITION NO. 4 POSITION

ENG TIME AT ENG OIL CHANGE
MADARS BOLT NUMBER

DATE FLOWN	HOURS FLOWN	CUMULATIVE AIRFRAME HOURS	CUM GEAR CYCLES	DUE CHG ENG S/N TIME	CYLS	0.0 / OIL	DUE CHG ENG S/N TIME	CYLS	0.0 / OIL	DUE CHG ENG S/N TIME	CYLS	0.0 / OIL	DUE CHG ENG S/N TIME	CYLS	0.0 / OIL	TOTAL LDGS	FULL STOP LDGS

* *

* AMC FORM-89 ENTRY DATA ACFT *

* ACFT LOG NO HOURS AGS *

* EFFECTIVE DATE - 2000/06/01 004 00024 00000 060 *

* *

Chapter 3

REQUEST AND REPORT FORMS

3.1. General Information on DD FORM 2026, Request for Oil Sample. The oil analysis request form is used to for submission of routine and special oil samples. Oil samples are required as part of the documentation routine when reporting the initial entry or reentry of equipment into the oil analysis program or reporting corrective actions such as engine or engine component removal, including actions accomplished as a result of a laboratory recommendation. They are also required when reporting incidents, such as overspeed, overtemp, compressor stall, or abnormal oil pressure indications, that could adversely affect oil wetted parts subject to wear. All maintenance actions which can effect the presence or level of wear metal in the oil system are cause for an oil sample and result in submission of DD Form 2026.

3.2. Documenting Oil Sample Requests. Program 9203 permits you to produce an automated DD Form 2026, Oil Analysis Request. The form can be generated for engines on aircraft, to include transient aircraft, and spare engines.

3.3. Producing DD Form 2026. The automated DD Form 2026, will assign a job control number, produce an AFTO Form 349 and will enter the discrepancy in the AFTO Form 781A. Program 9203 will also produce blank DD Forms 2026.

3.4. Program 9203 Processing Instructions. To accomplish a DD Form 2026, you must first access Program 9203 in the G081 system. The screen pictured in **Figure 3.1.** will be presented on the terminal. **Table 3.1.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 3.1. Program 9203 Input Screen

```
MAMU9203              REQUEST FOR OIL SAMPLE - DD FORM 2026
                                              1  2  3  4
       ACFT SER-NR.           ALL     ENGINE

    REMARKS:

    SPARE ENGINE SER NR.          MDS(ENGINES ONLY)

    349S   JOB CONTROL   SHOP   PLANS-SCHED

 INSTRUCTIONS:
    TO PRINT A BLANK FORM, (FOR TRANSIENT, TYPE "T" IN SER-NR & "X" IN SHOP).
    TYPE AIRCRAFT SERIAL NUMBER IN "ACFT SER-NR" FIELD.
    IF YOU NEED A FORM 2026 FOR ALL ENGINES, TYPE "X" IN "ALL" FIELD.
    FOR INDIVIDUAL ENGINES, TYPE "X"("R" FOR RED CAP) IN ENGINE LOCATION.
    REMARKS ENTERED FOR A VALID ACFT SER NR. WILL BE PASSED TO PROGRAM 9050
    TO REQUEST A FORM 2026 FOR A SPARE ENGINE, ENTER ENGINE SER NR. & MDS.
    TYPE "X" IN LOCATION WHERE 349 SHOULD BE PRINTED.
    PRESS ENTER.
    NOTE:  PROGRAM WILL ASSIGN JCN AND ENTER DISCREPANCY IN 781A.
```

Table 3.1. Program 9203 Data Entry Fields

1). ACFT SER NR 2). ALL 3). ENGINE 1 2 3 4 4). REMARKS	5). SPARE ENG NR 6). MDS 7). 349S

3.4.1. After accessing Program 9203, follow these steps:

3.4.1.1. Enter the ACFT SER NR. This is the 8-position aircraft serial number. The 6-position aircraft ID is not valid for this transaction. If you want to print a blank DD Form 2026 without an assigned job control number, enter a T in this field for transient aircraft and place an X in the SHOP field. Example: 70000454 (C-5 serial number).

3.4.1.2. Enter an X in the ALL field or leave BLANK. If a DD Form 2026 has not been executed within 30 days, enter an X in this field to request a Form 2026 for all engines. If producing a request for only one engine, leave this field blank and make the appropriate entry in step 3.4.1.3.

3.4.1.3. Enter the ENGINE or leave BLANK. If a DD Form 2026 has been executed within the last 30 days, you must place an X next to the engine you require a form for. You may enter R for RED CAP in the engine location.

3.4.1.4. Enter REMARKS or leave BLANK. If there are any remarks concerning the DD Form 2026 that you wish to appear in the AFTO Form 349 when the discrepancy is created, enter it in this field.

3.4.1.5. Enter SPARE Engine (ENG) SER NR or leave BLANK. If requesting a DD Form 2026 for a spare engine, enter the engine serial number in this field. If this option is selected, you must enter the engine type in the MDS field and place an X in the SHOP field.

3.4.1.6. Enter the MDS or leave BLANK. If you entered a spare engine serial number in the previous step, enter the engine MDS.

3.4.1.7. Enter an X in the 349S or leave BLANK. If you want to print the resulting form 349 in Job Control, the work center, or Plans and Scheduling, place an X in the appropriate field.

3.4.1.8. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

3.4.2. If your actions are accepted by G081, the program will assign a job control number, generate an AFTO Form 349, and enter a discrepancy in the appropriate aircraft AFTO Form 781A.

3.5. General Information on AFTO FORM 2406, **Maintenance Pre Plan.** AFTO Form 2406 report is a tool used by supervisors to track numerous jobs taking place simultaneously.

3.6. Producing the Maintenance Pre-Plan. Program 8053 provides the capability to process AFTO Form 2406. It displays the time and date the specialist is required for a job control number on a given aircraft. Also, the type of Aerospace Ground Equipment (AGE) required and the time required are displayed when applicable. If a maintenance team has been dispatched, the team leader's man number will be displayed if a team lead was assigned in Program 9048.

3.7. Program 8053 Processing Instructions. To generate an AFTO Form 2406, you must first access Program 8053 in the G081 system. The screen pictured in **Figure 3.2.** will be presented on the terminal. **Table 3.2.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 3.2. Program 8053 Input Screen

```
MAMR8053                AIRCRAFT MAINTENANCE PREPLAN
      SERIAL-ID:_________  SCHEDULE DATE:_____  SORT OPTION:
      ORIGINATOR:
      SUPERVISOR:

DEVICE:

INSTRUCTIONS: 1) A. IF DESIRED REPORT IS FOR ONLY ONE AIRCRAFT TYPE IN VALID
                    A/C SERIAL NUMBER OR ID NUMBER.
                 B. IF DESIRED REPORT IS FOR ALL AIRCRAFT STATIONED ON BASE
                    TYPE IN VALID BASE CODE IN FIRST 4 POSITIONS.
                    WITH THIS OPTION THE 5TH POSITION CAN BE:
                      T - AIRCRAFT WITH A "T" IN POSITION 1 OF SERIAL-ID.
                      A - ALL AIRCRAFT ON BASE INCLUDING TRANSIENT AIRCRAFT.
               2) TYPE IN VALID DATE FOR SCHEDULE PLAN IN JULIAN FORM.
               3) TYPE IN "2" TO SORT IN FLYING TIME SEQUENCE.
               4) TYPE IN VALID DEVICE:
                    S FOR SCOPE.
                    P FOR PRINTER.
               5) PRESS ENTER.
```

Table 3.2. Program 8053 Data Entry Fields

1). SERIAL-ID	4). ORIGINATOR
2). SCHEDULE DATE	5). SUPERVISOR
3). SORT OPTION	6). DEVICE

3.7.1. After accessing Program 8053, follow these steps:

3.7.1.1. Enter the SERIAL-ID. If the report is for a specific aircraft, enter the 8-digit aircraft SERIAL NUMBER, or the 6-position IDENTIFICATION NUMBER. If a report for all aircraft at a specific base is desired, enter the 4-digit BASE code. After the BASE code, you may enter either an; A for a report of all aircraft on base including transient aircraft, or a T to show only transient aircraft.

3.7.1.2. Enter the SCHEDULE DATE. Enter the 5-position Julian date (YYDDD format) that the report is provided for. G081 will list all open discrepancies that have been scheduled for that date.

3.7.1.3. Enter SORT OPTION or leave BLANK. Enter a 2 in the SORT OPTION field to create a report sorted in sequence of aircraft take-off time. Otherwise leave blank.

3.7.1.4. Enter the ORIGINATOR or leave BLANK. If you would like the name of the individual who originated the 2406 to appear on the output, enter it in this field.

3.7.1.5. Enter the SUPERVISOR or leave BLANK. If you would like the name of the SUPERVISOR to appear on the printed 2406, enter it in this field.

3.7.1.6. Enter the DEVICE code or leave BLANK The DEVICE field allows you to determine how the information will be displayed. An S in this field will generate your information on the computer screen, a P will cause the report to be printed to the LTERM assigned to you via program 9072. If no entry is made G081 will default to the screen option.

3.7.1.7. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

3.7.2. Once G081 accepts the data, it will return an output similar to the one shown in **Figure 3.3.**. Press the PA2 key again, or use the PA1 key to scroll through the output messages. If G081 rejects your input it will return the Program 8053 screen with an error message letting you know what fields must be corrected.

Figure 3.3. Program 8053 Output Screen Example

```
8053          MAINTENANCE PREPLAN FOR   C005A:70000454    DATE:12 AUG 98
CALL SIGN: G5A
SECTION:                                  LOCATION: 321
EFFECTIVE DATE: 11 AUG 98                 SCHED MISSION: FE TNG          /
ORIGINATOR:                               SUPERVISOR:
 SHOP   01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

PREPLAN AGE FOR LOCATION  321
TYPE MNEMONIC     ID    TIME/DATE         STATUS
* * * PARKING LOCATION NOT VALID * * *
* * * END OF MESSAGE 68053 * * *
```

3.8. General Information on AFTO FORM 2430 , Work Center Discrepancy List. AFTO Form 2430 displays a listing of open work orders for a given shop.

3.9. Producing a Work Center Discrepancy List. Program 8069 provides the capability to develop an automated AFTO Form 2430. You may create a report for an individual aircraft or all aircraft on station. Additionally, you may limit the scope of the report by requesting only “workable” discrepancies (no supply backorders). Other options include: listing only those discrepancies in the AFTO Form 781A, or 781K, or both; and refining the listing to those discrepancies included during scheduled maintenance (isochronal, refurbishment or cannibalization). You may also print blank forms.

3.9.1. Although Program 8069 is used to produce the automated Form 2430, some other G081 programs exist that will help in the research of various discrepancies. These are: Program 9032B *Discrepancy by Shop*, Program 9032C *List of Repeat/Recurring Discrepancies* and Program 9032D *List of Discrepancies for Job Control/ Expeditor/ Plans/Scheduling Preplanning*.

3.10. Program 8069 Processing Instructions. To generate an AFTO Form 2430, you must first access Program 8069 in the G081 system. The screen pictured in **Figure 3.4.** will be presented on the terminal. **Table 3.3.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 3.4. Program 8069 Input Screen

```
MAMR8069                 WORK CENTER DISCREPANCY LIST
 SER/ID/BASE _________ SHOP _____ SCHED MAINT    OPTION   BLNKS      AK
DEVICE
 ON STATION     START ZONE     STOP ZONE     START DATE       STOP DATE


 INSTRUCTIONS: 1) TYPE AIRCRAFT SERIAL NUMBER/ID OR A VALID BASE CODE
               2) TYPE SHOP MNEMONIC NAME
               3) TYPE "YES" TO INCLUDE SCHEDULED MAINTENANCE (ISO/RFB/CAN)
                       "ISO" TO INCLUDE SCHEDULED MAINTENANCE (ISO)
                       "RFB" TO INCLUDE SCHEDULED MAINTENANCE (RFB)
                       "CAN" TO INCLUDE SCHEDULED MAINTENANCE (CAN)
               4) IN OPTION, LEAVE "BLANK" FOR ALL JOBS OR
                  TYPE "W" FOR WORKABLE JOBS (NO SUPPLY ON BACK ORDER).
               5) TYPE 00-40 FOR NUMBER OF PRINTED BLANK FORMS
               6) TYPE DISCREPANCY (BLANK = CURRENT EDITS)
                        (A = ONLY A DISCREPANCIES)
                        (K = ONLY K DISCREPANCIES)
                        (B = BOTH A AND K)
               7) TYPE OUTPUT DEVICE (S = SCOPE, P = PRINTER)
               8) ON STATION         (Y = ON STATION ONLY)
               9) START ZONE  BEGINNING, SPECIFIC OR BLANK FOR ALL
              10) STOP ZONE  ENDING
              11) PRESS ENTER

 TO PRINTER TO 30 DAYS FOR REPEAT/RECURS: 15 DAYS ON ALL OTHER OPTIONS.
```

Table 3.3. Program 8069 Data Entry Fields.

1). SER/ID/BASE	7). DEVICE
2). SHOP	8). ON STATION
3). SCHEDBMAINT	9). START ZONE
4). OPTION	10). STOP ZONE
5). BLNKS	11). START DATE
6). AK	12). STOP DATE

3.10.1. After accessing Program 8069, follow these steps:

3.10.1.1. Enter the SERIAL/ID/BASE. If the report is being generated for a specific aircraft, enter the 8-digit aircraft SERIAL NUMBER, or the 6-position IDENTIFICATION NUMBER assigned to the aircraft. Enter the 4-position home station BASE code for a listing of discrepancies on all aircraft. (A full list of the BASE codes is found in Program 8007).

3.10.1.2. Enter the SHOP. This is the mnemonic of the SHOP that will perform the work on the aircraft. For a valid list of shop mnemonics for your base, process an R transaction in Program 9045.

3.10.1.3. Enter the SCHED MAINT field or leave BLANK. Select one of the options listed on the G081 screen and enter it in the SCHEDULED MAINTENANCE field. Example: ISO (to include isochronal inspection discrepancies only).

3.10.1.4. Enter the OPTION code or leave BLANK. The OPTION codes tell G081 what information it must gather to respond to your request. Enter a W for all workable jobs (no supplies on back order), or leave blank for all jobs including those with parts on order.

3.10.1.5. Enter the number of BLNKS or leave BLANK. This is the number of printed BLANK FORMS you require. Enter a number from 01– 40 or leave blank to produce a single blank form.

3.10.1.6. Enter the AK or leave BLANK. This field designates the type of AFTO Form 781 discrepancies desired. Enter A for FORM 781A discrepancies, K for Form 781K discrepancies, B for both 781A and 781K discrepancies, or leave blank for current edits.

3.10.1.7. Enter the DEVICE code or leave BLANK. The DEVICE field allows you to determine how the information will be displayed. An S in this field will generate your information on the computer screen, a P will cause the report to be printed to the LTERM assigned to you via program 9072. If left BLANK it will default to the screen option.

3.10.1.8. Enter the ON STATION code or leave BLANK. If you want a listing of ON STATION discrepancies only, enter a Y. Leave blank for all outstanding discrepancies.

3.10.1.9. Enter START ZONE or leave BLANK. This option is used to develop a report of discrepancies within a given zone of the aircraft. An entry in this field will define one parameter for the search. For most reports that are concerned with general information on an aircraft, this field will be left blank.

3.10.1.10. Enter STOP ZONE or leave BLANK. This option is used to develop a report of discrepancies within a given zone of the aircraft. This field will define the remaining parameter for the search. An entry is only required when the START ZONE field is completed.

3.10.1.11. Enter the START DATE or leave BLANK. This field is used to develop a listing beginning on a specific date. Leave blank for all discrepancies.

3.10.1.12. Enter the STOP DATE or leave BLANK. If you entered a START DATE in the previous step, enter a stop date in this field.

3.10.1.13. Press the ENTER. Once all required fields are input, press the ENTER key to send the data to G081.

3.10.2. Once G081 accepts the data, it will an output similar to the one pictured in **Figure 3.5.**. If G081 rejects your input, it will return the Program 8069 screen with an error message letting you know what fields must be corrected. ***NOTE:*** Observe that the output includes the total number of jobs and informs you of the “END OF MESSAGE” on the last screen.

Figure 3.5. Program 8069 Output Screen Example

```
8069  98159/08 JUN 98/2206 LOCAL    WORK CENTER LIST:      - ALL JOBS  PAGE 001
                JCN                DSR/TSR
 S/N  SYM   PRI  LOC JOB STD   ETIC         DISCREPANCY
 ********************************************************************************
 7583I 0801651  I C1  I      I      I  INFLATE SLIDE USING THE SLIDE NITROGEN
    I          I     I      I      I  CYLINDER AND CHECK SLIDE FOR LEAKAGE,CU
    I -     2  I     I      I      I  TS,TEARS,ABRASIONS,& MISOR DEFCTVE PRTS
    I          I     I      I      I..(91/01A)(LGMSD REMOVE SLIDES,FAB INSP)
    I          I     I      I      I  INFO: INSP   LOC: AT
 ********************************************************************************
 7583I 080165 2 I C1  I      I      I  INFLATE SLIDE USING THE SLIDE NITROGEN
    I          I     I      I      I  CYLINDER AND CHECK SLIDE FOR LEAKAGE,CU
    I -      2 I     I      I      I  TS,TEARS,ABRASIONS,& MISOR DEFCTVE PRTS
    I          I     I      I      I  (91/01A)(LGMSD REMOVE SLIDES,FAB INSP)
    I          I     I      I      I   INFO: INSP   LOC: LT
 ********************************************************************************
 7583I 080165 3 I C1  I      I      I  INFLATE SLIDE USING THE SLIDE NITROGEN
    I          I     I      I      I  CYLINDER AND CHECK SLIDE FOR LEAKAGE,CU
    I -      2 I     I      I      I  TS,TEARS,ABRASIONS,& MISOR DEFCTVE PRTS
    I          I     I      I      I  (91/01A)(LGMSD REMOVE SLIDES,FAB INSP)
    I          I     I      I      I   INFO: INSP   LOC: RT


 *** END OF MESSAGE 8069 ***                        *** TOTAL JOBS =    3
```

3.11. General Information on AFTO FORM 2431, **Aerospace Ground Equipment Status.** The AFTO Form 2431 is capable of displaying information concerning the status of engines, vehicles, auxiliary power units (APU) and aerospace ground equipment (AGE).

3.12. Documenting AGE Status. Program 8067 provides the capability process AFTO Form 2431. At the present time, the G081 system reports only AGE information. It provides a summary report by nomenclature of all AGE. Reports detail the number of units assigned, percentage rates, in commission and out of commission rates, units deployed, supply status and other pertinent data. This information is vital to managers and supervisors to assign repair priorities and determine long range scheduling requirements.

3.13. Producing AFTO Form 2431. Program 8067 only develops the AFTO Form 2431 report, it will not alter or update it. Changes to the information displayed on the screen are the result of updating the G081 database using Programs 9110, 9111 9112, and 9117.

3.14. Program 8067 Processing Instructions. To generate an AFTO Form 2431, you must first access Program 8067 in the G081 system. The screen pictured in **Figure 3.6.** will be presented on the screen **Table 3.4.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 3.6. Program 8067 Input Screen

```
MAMR8067          MORNING REPORT (AF FORM 2431)

  TRANS      OWNING WORKCENTER          PERFORMING WORKCENTER

                 TYPE      DEVICE      BASE       SORT


  TRANS:    B=BRIEF DISPATCHABLE & NONDISPATCHABLE, D=BRIEF DISPATCHABLE
            EQUIPMENT ONLY, N=BRIEF NONDISPATCHABLE EQUIPMENT ONLY.

  OWNING WORKCENTER:    ENTER IF SELECTION IS TO BE MADE FOR OWNING W/C.

  PERFORMING WORKCENTER: ENTER IF SELECTION IS TO BE MADE FOR PERF W/C.

  TYPE:     ENTER TYPE E=ENGINES, G=AGE, P=APU, V=VEHICLES

  DEVICE:   P=PRINTER, BLANK=SCOPE.

  BASE:     NOT REQUIRED AT OWNING BASE.

  SORT:     TO SORT BY MNEMONIC.
```

Table 3.4. Program 8067 Data Entry Fields

1). TRANS	5). DEVICE
2). OWNING WORKCENTER	6). BASE
3). PERFORMING WORKCENTER	7). SORT
4). TYPE	

3.14.1. After accessing Program 8067, follow these steps:

3.14.1.1. Enter the TRANS. The TRANSACTION field allows you to select the status of equipment you wish to include in the report. Enter a D for dispatchable equipment only, an N for non-dispatchable equipment, or a B for both dispatchable and non-dispatchable equipment.

3.14.1.2. Enter the OWNING WORKCENTER. The OWNING WORKCENTER is the shop to which the equipment is assigned. Leave blank if you enter the PERFORMING WORKCENTER. ***NOTE:*** You must make an entry in either the OWNING or PERFORMING WORKCENTER, but not in both. Normally you will make an entry in OWNING WORKCENTER.

3.14.1.3. Enter the PERFORMING WORKCENTER or leave BLANK. If the equipment is assigned to other than the OWNING WORKCENTER, you must enter the mnemonic for that shop.

3.14.1.4. Enter the TYPE. Enter the TYPE of equipment. Although there are four categories of equipment identified on the Program 8067, only the AGE category, option G, is active.

3.14.1.5. Enter the DEVICE code or leave BLANK. The DEVICE field allows you to determine how the information will be displayed. Entering a P will cause the report to be printed, an S will cause the report to be viewed on the screen only. If left blank it will default to the screen option.

3.14.1.6. Enter the BASE code or leave BLANK. If the owning base is processing the report, an entry in this field is not required. If not the owning base, enter the 4-position base code. These base codes are listed in Program 8007.

3.14.1.7. Enter the SORT or leave BLANK. The SORT field allows you to sort the report by shop mnemonic.

3.14.1.8. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

3.14.2. Once G081 accepts the data, it will return an output similar to the output shown in **Figure 3.7.**. Note that a continuation of data is provided on subsequent screens. To view that information, press the PA1 icon. If G081 rejects your input, it will return the Program 8067 screen with an error message letting you know what fields must be corrected.

Figure 3.7. Program 8

```
8067                    MORNING REPORT (AF FORM 2431)

   1.SCOTT AFB, BE       2.QE300       3.              CDB T/D 1454-98271

  E              TOT TOT I/C TOT EST H/S SCH USC SUP QTY AUT QTY UNI REC WRM
  M MNEMONIC     AUT ASG  %  I/C MIN I/C OUT OUT OUT TDY MOB STO PRP AUT ASG
 ********************************************************************************
    MA3D           7   7  29   2   2   2   1   3   1
    F-1 AXLE       2   2 100   2   1   2
    40T RHINO      4   4 100   4   2   4
    8.25 AXLE      2   2 100   2   1   2
    ARBOPRESS      1   1 100   1   1   1
    A/M 24A        2   2 100   2   1   2
    BENGRIND       1   1 100   1   1   1
    BOTTLJACK      1   1 100   1   1   1
    A1             2   2 100   2   1   2
    B1             3   4 100   4   1   4                                   1
    B2             1   1 100   1   1   1
    B4A           10  10  90   9   5   9       1
    B5A            1   1 100   1   1   1
    C1             4   4 100   4   2   4
    86D           13  13  92  12   6  12           1
                        MORE DATA FOLLOWS.  PRESS PA1 KEY.
      PA1=NEXT SCREEN;PA2=NEXT MSG; OR TYPE N,+N,-N(N=NBR) AND ENTER FOR PAGING
```

Chapter 4

HISTORICAL AND MAINTENANCE DATA DOCUMENTATION (MDD) FORMS

4.1. General Information on AFTO FORM 95, Significant Historical Data. The AFTO Form 95, **Significant Historical Data,** provides a permanent history of significant maintenance actions on end items of equipment. While many maintenance documents are temporary in nature and only provide status for a transitory period, the AFTO Form 95 can be viewed as a "cradle-to-grave" document. All significant events such as major component changes, Time Change Technical Order (TCTO) compliance, and depot actions are recorded to provide a living history of the end item. G081 uses two different programs to provide this information: (1) Program 9035 for aircraft, to include engines and –06 TO components and (2) Program 9064 for AGE.

4.2. Documenting Historical Data. Programs 9035 and 9064 provide the capability to call up an AFTO Form 95 for serially controlled items. Program 9035 provides the capability to process historical data relative to aircraft, while Program 9064 provides historical data concerning aerospace ground equipment (AGE). Detailed information concerning all the requirements associated with the completion of the AFTO Form 95 is provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents.* Information concerning centralized engine management is provided in TO 00-25-254-1, *System Manual-Comprehensive Engine Management System (CEMS) (D042) Engine Status, Configuration, and TCTO Reporting Procedures.*

4.3. Producing AFTO Form 95. Program 9035 (aircraft end item information) will only permit you to review or print the AFTO Form 95 requested. You may not make changes by this program. Changes to the AFTO Form 95 result from a variety of events that are driven by flying time, inspections, repair and replacement of components, TCTO and depot actions. For example, Program 9013 can change and delete information on the AFTO Form 95 for engines and components while Program 9037 can change or delete information on AFTO Forms 44 and 95 for aircraft, engines and components. If errors are found then contact one of the following: your shop chief, plans, scheduling and documentation section or your G081 manager.

4.3.1. Program 9064 (support equipment) does permit you to make changes to the AFTO Form 95. Access to this program must be granted by the G081 Manager.

4.4. Program 9035 (Aircraft) Processing Instructions. To view or print an AFTO Form 95 for aircraft, you must first access Program 9035. The screen pictured in **Figure 4.2.** will be presented on the terminal. **Table 4.1.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.1. Program 9.35 Input Screen

```
MAMU9035          SERIALLY CONTROLLED COMPONENT HISTORY
 CEI         SERIAL-NUMBER            SUB-ASSEMBLY   DEVICE   DATE       KEY
 DESTINATION




 INSTRUCTIONS: TYPE CEI OF DESIRED ITEM I.E. MA0001A = C 5 AIRCRAFT
                 A00001A = TF39 ENGINE
               TYPE 10 DIGIT ITEM SERIAL NUMBER.
               TYPE "X" IN SUB-ASSEMBLY IF DESIRED (SCOPE OR BATCH ONLY)
                    "F" IN SUB-ASSEMBLY FOR FIELD COMPONENTS ONLY
                    "A" IN SUB-ASSEMBLY FOR ACFT,ENGINE,APU,LANDING GEAR ONLY
                    "E" IN SUB-ASSEMBLY FOR ENGINE & LOWER ASSEMBLIES, & APU
               TYPE OUTPUT DESIRED IN DEVICE:
                   S FOR SCOPE OUTPUT    P FOR PRINTER OUTPUT
                   B FOR BATCH OUTPUT (REPORT WILL PRINT IN DFE ROOM OR AT NODE)
               TYPE JUL DATE OF HISTORY TO START REPORT FROM IF LEFT BLANK
               REPORT WILL START WITH FIRST HISTORY RECORD FOR THIS ITEM
               TYPE RJP OR NODE NAME IN DESTINATION FOR BATCH PRINTER.
                 (WILL DEFAULT IF LEFT BLANK.) ENROUTES USE PROGRAM 67187

               PRESS ENTER.
```

Table 4.1. Program 9035 Data Entry Fields

1). CEI	5). DATE
2). SERIAL-NUMBER	6). KEY
3). SUB-ASSEMBLY	7). DESTINATION
4). DEVICE	

4.4.1. After accessing Program 9035, follow these steps:

4.4.1.1. Enter the Component End Item (CEI). Enter the 7-position Component End Item (CEI). Example: MA0001A (C-5 aircraft CEI), A00001A (TF-39 engine CEI).

4.4.1.2. Enter the SERIAL-NUMBER. Enter the 10-position Serial Number. To print all Serial Numbers (S/N) for a certain CEI code, enter the word BASE followed by a 4-position BASE code. You may also enter ALL to print the entire fleet. Example: BASE=XDAT. (lists all S/N of the selected CEI at Travis AFB) or, 0068000217 (when S/N is known). ***NOTE:*** This is a 10-position field, therefore, if S/N is less than 10-digits, precede with zeroes.

4.4.1.3. Enter the SUB-ASSEMBLY or leave BLANK. Select an option from the G081 screen to display sub-assembly information. If left blank, the AFTO Form 95 will be for the aircraft only; no sub-assembly information will be provided. Enter an X for a history of the end item and it's lower assemblies, an F for a history of the engine and GEXXX sub-assemblies, an A for aircraft, engines, and CEI MC0009A through MC0700C, or E for a history of the engines, lower assemblies and APU for an aircraft entered in the previous step.

4.4.1.4. Enter the DEVICE or leave BLANK. The device field allows you to determine how the information will be displayed. Entering an S will present your output on the screen only. Entering a P will result in a printed report. Enter a B when requesting a batch output, which will cause the report to be printed at a specified batch printer.

4.4.1.5. Enter the DATE or leave BLANK. If you are interested in a report beginning on a specific date, enter the Julian DATE in this field. If left blank, the report will start with the first record for that specific item. ***NOTE:*** Omitting a date will result in all records for the S/N and CEI being processed to be displayed. This report will begin with the first recorded entry in G081 for the item and may create a very lengthy report.

4.4.1.6. Enter the KEY. This field requires a 2-position KEY or access code that is available through your local G081 Manager. Example: SL (typical KEY format).

4.4.1.7. Enter the DESTINATION or leave BLANK. This field requires that you enter a valid printer name as the DESTINATION for the print command. A list of available printers can be obtained through your local G081 Manager. Enter your local printer node or Remote Job Printer (RJP) node for batch printing. If left blank, G081 will default batch jobs to the RJP and smaller jobs to your printer.

4.4.1.8. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.4.2. If your actions are accepted by G081 your screen will appear as shown in **Figure 4.3.** or, in the case of a batch report, will print the message "ACTIVITY ACCEPTED, BATCH REPORT SENT TO DFE." ***NOTE:*** As shown in **Figure 4.3.**, because no date was entered in the DATE field, our sample begins in 1966. Normally, this information will have little value. Also note that second and subsequent screens on a long report must be viewed by pressing the PA1 key on the G081 display.

Figure 4.2. Program 9035 Output Screen Example

```
G081L9035-01        SIGNIFICANT HISTORICAL DATA          04AUG98/1013 CDB
                       AUTOMATED AFTO FORM 95
 MDS C5              S/N 0068000217  CEI MA0001A  ACC DATE         LOC XDAT
 LAST OVHL           MANF P/N C5A                MANF
 NOMENCLATURE C-5 AIRCRAFT                       CUR TIME 18145.6 CYC/LAND 11459


  DATE         REMARKS                                                    PERF ORG
 01JAN66  MAG COMPASS S/N 00532 DATE SWUNG 78093                          436 MAW
          N/359,15/???,30/???,45/044,60/???,75/???,90/090,105/???
          120/???,135/138,150/???,165/???,180/182,195/???,210/???
          225/226,240/???,255/???,270/270,285/???,300/???,315/315
          330/???,345/???
 30JUL70  WING MODIFICATION ECP-372 (PROJEDT BEEF UP) COMPLETED PRIOR      GELAC
          TO DELIVERED
 20AUG70  DELIVERED TO UNITED STATES AIR FORCE WITH ACFT HRS:16.5          GELAC
 20AUG70  ACFT.S/N 68-217 WAS RECEIVED BY THE 437 MAW AT 1700 HRS.
 16MAR71  THIS ACFT AFFECTED ON WINDSHIELD SERVICE TEST                    437 MAW
          ST 344-437-11AAC CO-PILOT'S WINDSHIELD ONLY.
 18MAY71  PROJECT #A-1-5081-SA SYSTEM UPDATE MOCIFICATION AND SAFETY       SA/ALC
          OF FLIGHT DEFECTS ACCOMPLISHED I/A/W FY-71 WORK
          SPECIFICATION ACFT HRS:584.7
 30NOV71  RECEIVED AT LOCKHEED-GEORGIA MARIETTA FOR SYSTEMS UPDATE         GELAC
PA1=NEXT SCREEN;PA2=NEXT MSG; OR TYPE N,+N,-N(N=NBR) AND ENTER FOR PAGING
```

4.5. Program 9064 (Support Equipment) Processing Instructions. To add, delete, alter, view or print an AFTO Form 95 for support equipment, you must first access Program 9064. The screen pictured in **Figure 4.4.** will be presented on the terminal. **Table 4.2.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.3. Program 9064 Input Screen

```
MAMU9064              AFTO FORM 95 (SUPPORT EQUIPMENT)          DATE 98.218

 TRANS    KEY    ID #         DISPATCH    BASE           MNEMONIC
 NOMENCLATURE                              DATE          TIME
 95 ENTRY

 ACCEPTANCE DATE:

  TRANS
   A=  ADD;  ID #, AND DISPATCH ARE REQUIRED. IF BASE IS NOT ENTERED THE
       LOCATION OF THE TERMINAL IS USED.  IF DATE AND/OR TIME ARE OMITTED THE
       SYSTEM DATE AND/OR TIME ARE USED
   C=  CHANGE;  ONLY THE 95 ENTRY MAY BE CHANGED.  DATE AND TIME REQUIRED TO
       LOCATE A SPECIFIC RECORD.
   D=  DELETE; ACCESS KEY REQUIRED, CALL DOCUMENTATION SECTION FOR ALL DELETIONS
   S=  SCOPE;  MAY INQUIRE AS TO A SPECIFIC ID #.  DISPATCH AND BASE ARE ALSO
       REQUIRED.  IF BASE IS OMITTED, IT DEFAULTS TO THE LOCATION
       OF THE TERMINAL
   P=  PRINT;  MAY INQUIRE AS TO ID # OR MNEMONIC. DISPATCH IS
       REQUIRED.  BASE IS OPTIONAL;  IF OMITTED, LOCATION OF
       THE TERMINAL IS USED.
```

Table 4.2. Program 9064 Data Entry Fields.

1). TRANS 2). KEY 3). ID# 4). DISPATCH 5). BASE 6). MNEMONIC	7). NOMENCLATURE 8). DATE 9). TIME 10). 95 ENTRY 11). ACCEPTANCE DATE

4.5.1. After accessing Program 9064, follow these steps:

4.5.1.1. Enter the TRANS. There are 5 options in the TRANSACTION field. Each is defined on the G081 screen. Enter the appropriate code for the action you are processing. ***NOTE:*** In order to CHANGE or DELETE information you must SCAN the data first by calling up the specific record from Program 9064. This requires, as a minimum, entries in the TRANS, ID# and DISPATCH fields. This action is needed to get the exact date and time of the AFTO Form 95.

4.5.1.2. Enter the KEY. This field is mandatory for change or delete transactions only and requires a 2-position KEY, or access code, which is available through your local G081 Manager. Example: DG (typical KEY format).

4.5.1.3. Enter the ID#. Enter the support equipment item's 6-digit IDENTIFICATION NUMBER. This field is required when adding or changing an AFTO Form 95 record. Example: QGDG01 (typical identification number).

4.5.1.4. Enter the DISPATCH. This field indicates whether the equipment can or can not be dispatched. Enter either a D for dispatchable, or an N for non-dispatchable.

4.5.1.5. Enter the BASE code or leave BLANK. The base code is a 4-position code for the base that possesses the equipment. These base codes are listed in Program 8007. If the BASE code is left blank, the information will default to the location of the terminal being used.

4.5.1.6. Enter the MNEMONIC or leave BLANK. A support equipment mnemonic is used to link a particular unit of support equipment to an end item such as an aircraft type, or to the work center with custody of it. The mnemonic is determined by the Allowance Source Manager (ASM). If the mnemonic for a specific piece of support equipment is known, you may enter it in this field to narrow search and report parameters.

4.5.1.7. Enter the NOMENCLATURE or leave BLANK. The nomenclature of a specific piece of support equipment may be entered in this field to narrow search and report parameters.

4.5.1.8. Enter the DATE. This field is required for add, change or delete transactions. Enter the date of your entry using the 4-digit year, followed by the Julian date. Example: 1998323 (indicates 19 November 1998).

4.5.1.9. Enter the TIME. This field is required for add, change or delete transactions. Enter the time of your entry in 24-hour clock time (local).

4.5.1.10. Make the 95 ENTRY. When adding or changing information in the history, you should be concise but provide enough detail to provide an accurate background for other maintenance personnel. Example: Change from TCTO 35C2-3-469-501 C/W 16AUG84 to TCTO 35C2-3-469-501 C/W 22AUG84 (example of change to a TCTO compliance sign-off date).

4.5.1.11. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.5.2. If your actions are accepted by G081, you will receive either a printed report, a screen display such as the one shown in **Figure 4.5.** with a message acknowledging the add, change or deletion action, or an AFTO Form 95 as shown in **Figure 4.6.**.

Figure 4.4. Program 9064 ADD Output Screen Example

```
MAMU9064              AFTO FORM 95 (SUPPORT EQUIPMENT)          DATE 98.267

 TRANS A  KEY    ID # QGDGO1  DISPATCH D  BASE DKFX      MNEMONIC 86 GEN
 NOMENCLATURE                              DATE          TIME
 95 ENTRY

 ACCEPTANCE DATE:  84273
 ACTIVITY ACCEPTED   RECORD ADDED

  TRANS
   A=  ADD;  ID #, AND DISPATCH ARE REQUIRED. IF BASE IS NOT ENTERED THE
       LOCATION OF THE TERMINAL IS USED.  IF DATE AND/OR TIME ARE OMITTED THE
       SYSTEM DATE AND/OR TIME ARE USED
   C=  CHANGE;  ONLY THE 95 ENTRY MAY BE CHANGED.  DATE AND TIME REQUIRED TO
       LOCATE A SPECIFIC RECORD.
   D=  DELETE; ACCESS KEY REQUIRED, CALL DOCUMENTATION SECTION FOR ALL DELETIONS
   S=  SCOPE;  MAY INQUIRE AS TO A SPECIFIC ID #.  DISPATCH AND BASE ARE ALSO
       REQUIRED.  IF BASE IS OMITTED, IT DEFAULTS TO THE LOCATION
       OF THE TERMINAL
   P=  PRINT;  MAY INQUIRE AS TO ID # OR MNEMONIC. DISPATCH IS
       REQUIRED.  BASE IS OPTIONAL;  IF OMITTED, LOCATION OF
       THE TERMINAL IS USED.
```

Figure 4.5. AFTO Form 95 (Support Equipment) Output Screen

```
AFTO FORM 95(SUPPORT EQUIPMENT)            PAGE 01
  ID # QGDG01 SER-NUM:          DISPATCH D   BASE DKFX     FIELD #  DG01
  AGE MANUFACTURE                                MNEMONIC 86 GEN
  ACCEPTANCE DATE 79173
    DATE    TIME      95 ENTRY
  1988244   0900     ACCEPT INSP C/W 13JUL79

  1988244   0905     ENG S/N 4A0234900 13JUL79

  1988244   0910     TCTO 35C2-3-465-501 C/W 30JUL81

  1988244   0915     TCTO 35C2-3-465-504 C/W 8OCT81

  1988244   0920     TCTO 35C2-3-465-502 C/W 15DEC81

  1988244   0921     TCTO 35C2-3-465-502C C/W 11JAN82

  1988244   0922     TCTO 35C2-3-465-503 C/W 7JUN82

  1988244   0923     TCTO 35C2-3-465-505 C/W 6AUG82

  1988244   0924     TCTO 35C2-3-469-501 C/W 16AUG84

 PRESS PA1 TO VIEW MORE RECORDS
```

4.6. General Information on AFTO FORM 44, Turbine Wheel Historical Record. A history of engine cycles, operating time, maintenance history and manufacture data is required for all jet engine turbine wheels to ensure their safe operation. The AFTO Form 44, provides a permanent history of significant maintenance actions on the engine turbine wheel. As in the case of the AFTO Form 95, this document can be viewed as a "cradle-to-grave" document. All significant events such as major component changes, TCTO, time changes and depot actions are recorded to provide a living history of the turbine wheel. Detailed information concerning all the requirements associated with the completion of the AFTO Form 44 is provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents.*

4.7. Documenting Engine Turbine Wheel History. Program 9035 provides the capability to call up an AFTO Form 44 for engine turbine wheels. This form is very similar to an AFTO Form 95, except that it provides historical data for engine turbine wheels only.

4.8. Producing AFTO Form 44. These programs will only print or view the AFTO Forms requested. You may not make changes to the programs listed above. Changes to the AFTO Form 44 result from a variety of events that are driven by flying time, inspections, repair and replacement of components, TCTO and depot actions. Program 9037 updates the database. If errors are found then contact one of the following: your shop chief, base engine manager, plans, scheduling and documentation section or your G081 manager.

4.9. Program 9035 Processing Instructions. To view or print an AFTO Form 44, you must first access Program 9035 in the G081 system. The screen pictured in **Figure 4.7.** will be presented on the terminal. **Table 4.3.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.6. Program 9035 Input Screen

```
MAMU9035          SERIALLY CONTROLLED COMPONENT HISTORY
 CEI         SERIAL-NUMBER            SUB-ASSEMBLY   DEVICE   DATE       KEY
 DESTINATION



 INSTRUCTIONS: TYPE CEI OF DESIRED ITEM I.E. MA0001A = C 5 AIRCRAFT
                 A00001A = TF39 ENGINE
               TYPE 10 DIGIT ITEM SERIAL NUMBER.
               TYPE "X" IN SUB-ASSEMBLY IF DESIRED (SCOPE OR BATCH ONLY)
                    "F" IN SUB-ASSEMBLY FOR FIELD COMPONENTS ONLY
                    "A" IN SUB-ASSEMBLY FOR ACFT,ENGINE,APU,LANDING GEAR ONLY
                    "E" IN SUB-ASSEMBLY FOR ENGINE & LOWER ASSEMBLIES, & APU
               TYPE OUTPUT DESIRED IN DEVICE:
                   S FOR SCOPE OUTPUT    P FOR PRINTER OUTPUT
                   B FOR BATCH OUTPUT (REPORT WILL PRINT IN DFE ROOM OR AT NODE)
               TYPE JUL DATE OF HISTORY TO START REPORT FROM IF LEFT BLANK
               REPORT WILL START WITH FIRST HISTORY RECORD FOR THIS ITEM
               TYPE RJP OR NODE NAME IN DESTINATION FOR BATCH PRINTER.
                 (WILL DEFAULT IF LEFT BLANK.) ENROUTES USE PROGRAM 67187

               PRESS ENTER.
```

Table 4.3. Program 9035 Data Entry Fields.

1). CEI	5). DATE
2). SERIAL NUMBER	6). KEY
3). SUB-ASSEMBLY	7). DESTINATION
4). DEVICE	

4.9.1. After accessing Program 9035, follow these steps:

4.9.1.1. Enter the CEI. Enter the 7-position Component End Item (CEI). Example: MA0001A (C-5 aircraft CEI), A00001A (TF-39 engine CEI).

4.9.1.2. Enter the SERIAL-NUMBER. Enter the 10-position Serial Number. To print all Serial Numbers (S/N) for a certain CEI code, enter the word BASE followed by a 4-position BASE code. You may also enter ALL to print the entire fleet. Example: BASE=XDAT. (lists all S/N of the selected CEI at Travis AFB) or, 0068000217 (when S/N is known). ***NOTE:*** This is a 10-position field, therefore, if S/N is less than 10-digits, precede with zeroes.

4.9.1.3. Enter the SUB-ASSEMBLY or leave BLANK. Select an option from the G081 screen to display sub-assembly information. If left blank, the AFTO Form 95 will be for the aircraft only; no sub-assembly information will be provided. Enter an X for a history of the end item and it's

lower assemblies, an F for a history of the engine and GEXXX sub-assemblies, an A for aircraft, engines, and CEI MC0009A through MC0700C, or E for a history of the engines, lower assemblies and APU for an aircraft entered in the previous step.

4.9.1.4. Enter the DEVICE or leave BLANK. The device field allows you to determine how the information will be displayed. Entering an S will present your output on the screen only. Entering a P will result in a printed report. Enter a B when requesting a batch output, which will cause the report to be printed at a specified batch printer.

4.9.1.5. Enter the DATE or leave BLANK. If you are interested in a report beginning on a specific date, enter the Julian DATE in this field. If left blank, the report will start with the first record for that specific item. ***NOTE***: Omitting a date will result in all records for the S/N and CEI being processed to be displayed. This report will begin with the first recorded entry in G081 for the item and may create a very lengthy report.

4.9.1.6. Enter the KEY. This field requires a 2-position KEY or access code that is available through your local G081 Manager. Example: SL (typical KEY format).

4.9.1.7. Enter the DESTINATION or leave BLANK. This field requires that you enter a valid printer name as the DESTINATION for the print command. A list of available printers can be obtained through your local G081 Manager. Enter your local printer node or Remote Job Printer (RJP) node for batch printing. If left blank, G081 will default batch jobs to the RJP and smaller jobs to your printer.

4.9.1.8. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.9.2. If your actions are accepted by G081 your screen will appear as shown in **Figure 4.8.** or, in the case of a batch report, will print the message "ACTIVITY ACCEPTED, BATCH REPORT SENT TO DFE." ***NOTE***: As shown in **Figure 4.8.**, because no date was entered in the DATE field, our sample begins in 1985. Also note that second and subsequent screens on a long report must be viewed by pressing the PA1 key on the G081 display.

Figure 4.7. Program 9035 Output Screen Example

```
GO81C7187-01          SIGNIFICANT HISTORICAL DATA        01OCT98/1019  CDB


MDS                   S/N 00FAB00499  CEI GE0037A  ACC DATE         LOC FJXT
LAST OVHL  24JUN89    MANF P/N 9138M62G08        MANF GEN ELECTRIC, OHIO
NOMENCLATURE TURBINE   MID FRAME MODULE #7        CUR TIME  5009.4 CYC/LAND
STATUS: INSTALLED ON   NHA CEI: A00001A S/N: 00GE441053  POS:     DATE
                       NHA HRS:  5009.4 NHA CYC/LANDINGS:     1398

DATE     REMARKS                                                        PERF ORG

18SEP85  TURBINE MID FRAME OVERHAUL I.A.W. T.O. 2J-TF39-3 INSTRUCTION   SKJU
         S. COMPLIED WITH ECP 210,212,213,219,224,245,250,214,AND
         286. PART NUMBER CHANGED TO 9184M62G02. TT:7827.1 HRS
         TSCO 0.0 HRS. CYC:3169.

02FEB88  TURBINE MID FRAME DUE TCTO 664.                                436 FMS
         NRTS CODE 1, RETURN TO DEPOT.

23JUN89  TT: 7827.1 HRS   TSO: 7827.1 HRS  NC: 3169                     MBPB
         OCM,IAW 2J-TF39-4.
         TCTOS 2J-TF39-664 C/W.
         SOLD TO ENGINE.   BRR

15NOV89  INSTALLED ON ENGINE 00GE441054.  ENGINE TSO AT INSTALLATION    MBPB
         02871.2.  ENGINE CYCLES 000875 .  COMPONENT HOURS   7827.1

15NOV89    BEARING, M, PART NR 9081M69P01     , SERIAL NR 00MDAD9562,   MBPB
         INSTALLED ON 00FAB00499. ENGINE TSO AT INSTALLATION  07827.1
         ENGINE CYCLES 078271  COMPONENT HOURS   3564.3

15NOV89  TT: SAME AS ABOVE                                              MBPB
         INSTALLED ON TF39GE1C ENGINE SN 441053 AT ENGINE
         TT: 7431.9 HRS. TSO: 00.0 HRS. NC: 875

19NOV92  REMOVED FROM ENGINE 00GE441054.  ENGINE TSO AT INSTALLATION    XDAT
         01337.0. ENGINE TSO AT REMOVAL 01730.8 ENGINE CYCLES 001337
         COMPONENT  HOURS   9557.9
         REMOVAL REASON:800-NO DEFECT, REMOVED/REINSTALLED TO FACILIT

01DEC92  INSTALLED ON ENGINE 00GE441054.  ENGINE TSO AT INSTALLATION    XDAT
         01730.8.  ENGINE CYCLES 001337  . COMPONENT HOURS   9557.9

07JAN94  #5 MAIN ROLL, PART NR 9081M69P01     , SERIAL NR 00MDAD9562,   XDAT
         REMOVED FROM 00FAB00499. ENGINE TSO AT REMOVAL IS  07831.6
         ENGINE CYCLES 000000  COMPONENT HOURS   5665.5
         REMOVAL REASON:800-NO DEFECT, REMOVED/REINSTALLED TO FACILIT

07JAN94  #5 MAIN ROLL, PART NR 9081M69P01     , SERIAL NR 00MDAD9562,   XDAT
         INSTALLED ON 00FAB00499. ENGINE TSO AT INSTALLATION  07831.6
         ENGINE CYCLES 000000  COMPONENT HOURS   5665.5


* * END OF REPORT FOR GE0037A00FAB00499 * *
```

4.10. General Information on AFTO Form 244, Industrial/ Support Equipment Record, and AFTO Form 245, Industrial Support Equipment Record (Continuation Sheet). The AFTO Form 244 displays all open or closed discrepancies for industrial or support equipment. AFTO Form 245 is a continuation sheet that in G081 will be presented as subsequent pages to the Form 244 report. Detailed information concerning all the requirements associated with the completion of the AFTO Form 244/245 is provided in TO 00-20-7, *Inspection System, documentation, and Status Reporting for Support and Training Equipment.*

4.10.1. There is not a means to produce all five sections of Form 244 within a single G081 program. Information concerning basic item data and the inspection cycle are separated. For this reason, this directive applies only to the automated section of AFTO Form 244/245 that provides a record of support equipment (SE) status, location and maintenance history.

4.10.2. Program 8066 provides the capability to produce sections I (item identification information) and V (record of discrepancies) of AFTO Form 244/245 for industrial or support equipment items. It is updated through inputs in Programs 9064, 9111, 9112, and 9115.

4.10.3. Entries relative to inspections (AFTO Form 44, sections II, III, and IV) must be documented and closed out using Program 9110 and produced using Program 8061. These records will not be produced in G081 in the AFTO Form 244 format, rather, as a data report.

4.11. Producing AFTO Form 244. Program 8066 will only permit you to review or print the AFTO Form 244/245 requested. You may not make changes to the form using this program. Changes to the AFTO Form 244/245 result from a variety of events that are driven by inspections, repair and replacement of components, TCTO and Depot actions. As stated earlier, No single G081 program updates the AFTO 244/245. If errors are found, contact your G081 Manager.

4.12. Program 8066 Processing Instructions. To view or print an AFTO Form 95, you must first access Program 8066 in the G081 system. The screen pictured in **Figure 4.9.** will be presented on the terminal. **Table 4.4.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.8. Program 8066 Input Screen

```
MAMR8066          SUPPORT EQUIPMENT AUTOMATED AFTO FORM 244/245

 ID          TRANS     FROM         TO         OUTPUT     BASE      P-OPT


 INSTRUCTIONS
         ID BLOCK: TYPE IN SIX POSITION ID NUMBER

         TRANS:    LEAVE BLANK FOR ALL OPEN DISCREPANCIES
                   A = ALL OPEN DISCREPANCIES PLUS SPECIFIED # OF BLANK BLOCKS
                   B = ALL CLOSED DISCREPANCIES UP TO 90 DAYS FROM CURRENT
                   DATE, OR SELECT A SPECIFIC TIME FRAME: INSERT JULIAN DATE IN
                   -FROM- AND -TO- WITH -B- TRANS
                   C = ALL OPEN/CLOSED DISCREPANCIES

         OUTPUT:   P = PRINTED OUTPUT, BLANK = SCOPE

         BASE:     ENTER FOUR POSITION BASE CODE, (NOT REQUIRED AT OWNING BASE).
              (I.E. AGGN (ALTUS), FJXT (DOVER), XDAT (TRAVIS), ETC.)

         P-OPT: A TRANS ONLY ENTER # OF BLANK BLOCKS UP TO 9 0=NONE BLANK=1
```

Table 4.4. Program 8066 Data Entry Fields.

1). ID	5). OUTPUT
2). TRANS	6). BASE
3). FROM	7). P-OPT
4). TO	

4.12.1. After accessing Program 8066, follow these steps:

4.12.1.1. Enter the ID. This is the 6-position identification number assigned to the equipment item. Example: QGAC01 (typical support equipment identification number).

4.12.1.2. Enter the TRANS or leave BLANK. Enter one of the TRANSACTION codes listed on the G081 screen. If left blank, a Form 244 will be produced listing a complete discrepancy history.

4.12.1.3. Enter the FROM date or leave BLANK. If you selected TRANS B in Step 4.12.1.2. you must enter the Julian date in this field.

4.12.1.4. Enter the TO date or leave BLANK. If you entered a date in the FROM field in Step 4.12.1.4. you must enter an ending Julian in this field.

4.12.1.5. Enter the OUTPUT code or leave BLANK. The OUTPUT field allows you to determine how the information will be displayed. Leaving the field blank will generate the information on the computer screen. Entering a P will cause the report to be printed to the LTERM assigned to you via program 9072.

4.12.1.6. Enter the BASE code or leave BLANK. If the owning base is processing the report, no entry is required in this field. If reviewing data on an item possessed by another base, enter the 4-position base code. These base codes are listed in Program 8007.

4.12.1.7. Enter the P-OPT or leave BLANK. If an A was selected in the TRANS field, you must enter a number from 1 to 9 to create blank blocks that are used to manually write in the discrepancy, JCN, corrective action, and any other pertinent information.

4.12.1.8. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.12.2. Once G081 accepts the data, it will return an output similar to the output shown in **Figure 4.10.**. If G081 rejects your input, it will return a Program 8066 screen with an error message letting you know what fields must be corrected.

Figure 4.9. Program 8066 Output Screen Example

```
================================================================================
          SUPPORT  EQUIPMENT  AUTOMATED  AFTO  FORM 244/245
==========================SECTION I ITEM IDENTIFICATION=========================
 1. NOMENCLATURE OR MNEMONIC 2. REGISTRATION/SERIAL NO.  4. ID NO.    4. FLD NO.
    AIR COND. MA3D D            93-0730                  QGAC01       AC01
 5. WUC OR REF DES      6. W/C ASSIGN        7. PERIOD COVERED      8.GAF
    AGEPA                  QE300          FROM 0805/98237    TO     /03MAR 0
  ******************SECTION V MAINTENANCE DELAYED DISCREPANCY******************
 9. T.O. 35E9-11-71          10. NSN 4120013688258   11.OXF86          12.AC01
 ================================================================================
 SYM  W/CTR  DISCREPANCY   JCN 3091006     - CORRECTIVE ACTION:
  X   LGMG   COMPRESSOR & RECIEVER VALVES  -
              CLOSED FOR WINTER STORAGE    -
                                           -
                                           -
                                           - CORRECTED BY:       DATE:
 DISC. BY:       DATE: 05NOV97  TAG N N/A  - INSPECTED BY:       DATE:
 ================================================================================




 PRESS PA1 KEY FOR ADDITIONAL INFORMATION ===================================
```

4.13. General Information on AFTO Form 350, Reparable Item Processing Tag. The AFTO Form 350, commonly referred to as a 350 TAG, is a two-part form used to control off-equipment assets removed for maintenance shop processing. If an end item is removed to facilitate the repair process, then an AFTO Form 350 Tag is generated to accompany the end item through the maintenance process. Part 1 provides a repair cycle processing tag, while Part 2 serves as a production record and scheduling document. Normally, an AFTO Form 350 Tag will accompany an asset in the repair cycle until the maintenance process is complete. It provides information concerning the current condition of the item. Detailed information concerning all the requirements associated with the completion of the AFTO Form 350 is provided in TO 00-20-2, *Maintenance Data Documentation.*

4.13.1. The AFTO Form 350 tag is initiated when an item is removed for maintenance shop action. This normally results in more than one person handling the item and completing the AFTO Form 350 tag. The maintenance person that removes the item will initiate the tag and it will stay active with the

asset through the maintenance process. The maintenance person that accomplishes the repair or disposition of the item will complete the tag.

4.14. Documenting Component Repair. Program 9128 allows you to create, make changes to, or close-out an AFTO Form 350. Unlike other automated forms in G081, that only provide data based on inputs from other programs, Program 9128 is used to create a document as a result of the current maintenance action and can also be used to create AFTO Form 349 for Maintenance Data Collection (MDC) labor-hour accounting. Once the maintenance process is completed, the AFTO Form 350 tag is closed-out using Programs 9099, 9128, 9129, or 9129A.

4.15. Producing AFTO Form 350. To process AFTO Form 350 Tag, you must first access Program 9128 in the G081 system. The screen pictured in **Figure 4.11.** will be presented on the terminal. **Table 4.5.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.10. Program 9128 Input Screen

```
MAMU9128  ACTION   STATUS   REPAIR-SHOP      WUC/REF DES            KEY
 JCN          ID/SERIAL          SRD     WD   TM   HM     MDS         QTY
 UNIT-OF-ISSUE    SYSTEM-DESIGNATOR
 PART NUM                 COMPONENT SER           DIFM DOC NBR
 STOCK NUM                  NOMENCLATURE
 DISCREPANCY

 EST TIME (HHT)     CMD-ACT-ID    350-TAG         PRINT 349/350 TAG
 TRANSFER-SHOP          TRANSFER TAGS:

 BASE       SHOP        RECEIVE                                EMPLOYEE
   TAG      STATUS     TIME/ DATE    TSR / DATE   ETJC/ DATE   NUMBER



 ACTION:A= ADD, C= CHANGE, D= DELETE, F= DIFM, M= BLANK MDC, P= PRINT 349/350
  N= TURN AROUND, S= SCAN, T= TRANSFER, Z= UPDATE MULTIPLE TAGS (BOTTOM ONLY)
 STATUS: H = DEFERRED   I = AWI O = OAM     A = MTM   3 = PRINT AFTO FORM 349
         W = IN WORK    M = AWM F = AWF     R = CTR   X = PRINT 350 TAG
         C = CLOSE OUT  P = AWP S = SHIPPED           B = PRINT BOTH 349 & 350
```

Table 4.5. Program 9128 Data Entry Fields.

1). ACTION	13). QTY	26). TRANSFER SHOP
2). STATUS	14). UNIT OF ISSUE	27). TRANSFER TAGS
3). REPAIR SHOP	15). SYSTEM DESIGNATOR	28). BASE
4). WUC/REF DES	16). PART NUM	29). SHOP
5). KEY	17). COMPONENT SER	30). RECEIVE
6). JCN	18). DIFM DOC NBR	31). EMPLOYEE
7). ID/SERIAL	19). STOCK NUM	32). TAG
8). SRD	20). NOMENCLATURE	33). STATUS
9). WD	21). DISCREPANCY	34). TIME/DATE
10). TM	22). EST TIME	35). TSR/DATE
11). HM	23). CMD-ACT CODE	36). ETJC/DATE
12). MDS	24). 350 TAG	37). NUMBER
	25). PRINT 349/350 TAG	

4.15.1. After accessing Program 9128, follow these steps:

4.15.1.1. Enter the ACTION. Enter one of the action codes listed in **Table 4.6.**.

Table 4.6. Program 9128 ACTION Codes.

A	Adds a 350 tag to the database. WUC/REF DES field is mandatory with this option. Only STATUS codes A, W, M, and O may be used for Option A.
C	Changes an existing form. This option does not allow MDS data to be blanked out. ***NOTE:*** In order to process a C action code, the user must first process action code S and fill in the REPAIR-SHOP, JCN, and ID/SERIAL data fields. At this point, press ENTER and a refreshed 9128 screen will appear. C is then inserted in the ACTION field and the user must tab to the fields they wish to change, enter new data, and press ENTER a second time to record the change. Data fields that can be changed are listed in **Table 4.5.**.
S	Scans the database for certain 350 tags. Entries in 350-TAG and REPAIR-SHOP fields produces specified tag. Entries in REPAIR-SHOP and ID/SERIAL fields produces all open tags for that ID in that shop. Entry in JCN field with REPAIR-SHOP and ID/SERIAL fields left blank produces all open tags for specified JCN.
D	If user has authority from G081 Manager, this option allows forms to be deleted. ***NOTE:*** In order to process a D action code, the user must first process action code S and fill in the REPAIR-SHOP, JCN, and ID/SERIAL data fields. At this point, press ENTER and a refreshed 9128 screen will appear. D is then inserted in the ACTION field and an access KEY must be entered. Press the ENTER key to complete deletion.
P	Use this option to print 349 and/or 350 tag. In PRINT 349/350TAG field, enter 3 for 349 only, X for 350 only, B for both. Enter number of blank forms in QTY field.
T	Used to transfer 350 tags to other work centers. When using this option, TRANSFER-SHOP and TRANSFER TAGS fields must be completed.
N	Used to process TURN AROUND assets in Standard Base Supply System (SBSS). All supply data must be included in Program 9128 to allow processing.
F	Use to process a Due In From Maintenance (DIFM) to SBSS. Used with Tag status M, W, or I only. All supply data must be included in Program 9128 to allow processing.
M	Use to blank MDC fields. Restricted to G081 Management.
Z	Used to update lines 10 – 15 of up to four 350 tags.

4.15.1.2. Enter the STATUS. This code identifies the current status of the 350 tag in the maintenance cycle. Enter one of the codes from **Table 4.7.**.

Table 4.7. Program 9128 STATUS Codes.

H	Deferred.
W	In Work.
C	Close Out.
I	Awaiting Installation (AWI).
M	Awaiting Maintenance (AWM).
P	Awaiting Parts (AWP).
O	Retained On System.
F	Awaiting Testing.
S	Shipped.
A	Maintenance To Maintenance (MTM).
R	Contract or Technical Maintenance.
3	To print AFTO Form 349.
X	To print AFTO Form 350.
B	To print both an AFTO Form 349 and 350.

4.15.1.3. Enter the REPAIR SHOP. This is the mnemonic of the REPAIR SHOP that will perform the work on the item. For a valid list of shop mnemonics for your base, process Program 9007, *Work Center Update*.

4.15.1.4. Enter the WUC/REFDES. Input a 5-digit WORK UNIT CODE or a 10-digit REFERENCE DESIGNATOR. The REF/DES is unique to the C-17 aircraft. If you are unsure about the correct WUC use the appropriate –06 *Work Unit Code* manual for your Mission, Design, Series. It is imperative that the correct WUC is used.

4.15.1.5. Enter the KEY or leave BLANK. This field requires a 2-position KEY, or access code, which is available through your local G081 Manager. ***NOTE:*** This KEY code is not required to ADD an AFTO Form 350.

4.15.1.6. Enter the JCN. Enter the 7-position JOB CONTROL NUMBER that is assigned to the discrepancy(s).

4.15.1.7. Enter the ID/SERIAL. Enter the IDENTIFICATION/SERIAL number assigned to the equipment item. This number is a 6-digit number. Example: QGH001 (typical support equipment identification number).

4.15.1.8. Enter the standard reporting designator (SRD) or leave BLANK. A STANDARD REPORTING DESIGNATOR (SRD) will automatically load if you are entering an aircraft component. If you are creating an AFTO Form 350 Tag for support or PMEL equipment, the SRD must be entered manually. If you are unsure of the proper SRD code, contact your Documentation Section.

4.15.1.9. Enter the WD. The WHEN DISCOVERED CODE (WDC) is a one-position field used to identify at what point in time the discrepancy was discovered. Use the applicable -06 *Work Unit Code* manual to find the proper WDC for the discrepancy you are processing.

4.15.1.10. Enter the TM. The TYPE MAINTENANCE CODE (TM) is a one-position field used to identify the type of maintenance. Use the applicable -06 *Work Unit Code* manual to find the proper TM for the discrepancy you are processing. the proper WDC for the discrepancy you are processing.

4.15.1.11. Enter the how malfunction (HM). This field is used to record the HOW MALFUNTION CODE. The originator of the AFTO Form 350 Tag will input the correct code from the appropriate *–6 Work Unit Code* manual.

4.15.1.12. Enter the MDS. This identifies the MISSION DESIGN SERIES (MDS) of the aircraft that originated the component. Enter the MDS in 3 to 6 digits, enter SE for Support Equipment, or enter PMEL for Precision Measuring Equipment List items. Example: C005 (C-5 aircraft), C17 (C17 aircraft), C135T (KC-135T aircraft).

4.15.1.13. Enter the quantity (QTY). Enter the numeric QUANTITY for the number of items being repaired.

4.15.1.14. Enter the UNIT OF ISSUE or leave BLANK. Enter the UNIT OF ISSUE. If the item is a DIFM asset, the G081 system will automatically fill this field. Example: EA (unit of quantity is a single, or each, item).

4.15.1.15. Enter the SYSTEM DESIGNATOR or leave BLANK. This information is supplied by the G081 database. Leave blank.

4.15.1.16. Enter the PART NUM. Enter the equipment item PART NUMBER. Example: 8721100-10 (typical part number).

4.15.1.17. The COMPONENT SER is not required. Leave blank.

4.15.1.18. Enter the DIFM DOC NBR. The DUE IN FROM MAINTENANCE DOCUMENT NUMBER is required for all DIFM controlled assets. If the item is not DIFM, leave this field blank. Example: X405AG (typical DIFM document number).

4.15.1.19. The STOCK NUM is not required. The STOCK NUMBER will automatically load from the G081 database. ***EXCEPTION:*** If the item of equipment is not loaded in the G081 system, you must enter NOTMAC in the STOCK NUMBER field.

4.15.1.20. Enter the NOMENCLATURE or leave BLANK. The NOMENCLATURE will automatically load from the G081 database. ***EXCEPTION:*** If the item of equipment is not loaded in the G081 system, you must enter brief description.

4.15.1.21. Enter the DISCREPANCY. Be as thorough as possible when inputting the DISCREPANCY. It should describe in detail the maintenance problem the aircraft is experiencing.

4.15.1.22. Enter the estimated (EST) TIME (HHT). Enter the estimated time to complete the repair being documented in hours and tenths of hours, if known. If left blank, G081 will supply an estimate from Program 9132. ***NOTE***: For jobs that take excessive time, enter H for hundreds, or K for thousands in the first position of this field followed by the 1- or 2-digit significant digit. Example: K02 (job estimated for 2,000 hours), 045 (job estimated for 4-and-a-half hours).

4.15.1.23. Enter the CMD-ACT-ID. Enter the originating activity command identification code or activity code.

4.15.1.24. Enter 350 TAG number. When searching for a specific 350 tag, enter the number in this field. ***NOTE:*** When adding a new tag, G081 will assign the number, leave this field blank.

4.15.1.25. Select PRINT 349/350 TAG option. If you wish to print the tag, enter 3 for 349 only, X for 350 only or B for both.

4.15.1.26. Enter the TRANSFER-SHOP. When processing ACTION code T, enter the shop receiving responsibility for repair.

4.15.1.27. Enter the TRANSFER TAGS. When processing ACTION code T, enter the 350 tag number being transferred.

4.15.1.28. Press the ENTER key. Once all required fields are input press the ENTER key to send the data to G081.

4.15.2. If your actions are accepted by G081 your screen will appear as shown in **Figure 4.12.**. Note the ACTIVITY ACCEPTED message in the lower portion of the screen. If a print command was entered during processing, the 350 tag would be produced on the associated LTERM printer. This concludes the initial development of AFTO Form 350.

4.15.3. Inputs may be rejected for a number of reasons. A common problem is that the data required by G081 has not been loaded through other programs, most commonly Program 9132. If this is the case, you must get assistance from the G081 Manager or their designee. Access to Program 9132 is controlled and requires a KEY code.

Figure 4.11. Completed AFTO Form 350 Tag Output Screen

```
MAMU9128  ACTION A  STATUS M REPAIR-SHOP LGMAE WUC/REF DES AGEPE       KEY
 JCN 2651005 ID/SERIAL QGH001   SRD G4Q WD P TM M HM 242    MDS   SE    QTY 001
 UNIT-OF-ISSUE    SYSTEM-DESIGNATOR
 PART NUM 8721100-10      COMPONENT SER            DIFM DOC NBR  X405AG
 STOCK NUM 4520             NOMENCLATURE H1 HEATER
 DISCREPANCY UNIT HAS DEAD BATTERY

 EST TIME (HHT) 040 CMD-ACT-ID    350-TAG 3SE0108 PRINT 349/350 TAG
 TRANSFER-SHOP          TRANSFER TAGS:

 BASE       SHOP        RECEIVE                                  EMPLOYEE
   TAG      STATUS     TIME/ DATE    TSR / DATE   ETJC/ DATE    NUMBER




 ACTIVITY ACCEPTED
 ACTION:A= ADD, C= CHANGE, D= DELETE, F= DIFM, M= BLANK MDC, P= PRINT 349/350
  N= TURN AROUND, S= SCAN, T= TRANSFER, Z= UPDATE MULTIPLE TAGS (BOTTOM ONLY)
 STATUS: H = DEFERRED   I = AWI O = OAM     A = MTM   3 = PRINT AFTO FORM 349
         W = IN WORK    M = AWM F = AWF     R = CTR   X = PRINT 350 TAG
         C = CLOSE OUT  P = AWP S = SHIPPED           B = PRINT BOTH 349 & 350
```

4.16. Back Shop Processing of AFTO Form 350 Using Program 9129. After Form 350 has been created by the originating activity, the repair cycle continues at the next level of maintenance. In order for the action to be completely and accurately documented, more information is required.

4.16.1. Back Shops complete the required areas of AFTO Form 350 by processing Program 9129. After accessing the program, the screen pictured in **Figure 4.13.** will be presented on the terminal. **Table 4.8.** lists all of the fields that are to be discussed in the instructions.

Figure 4.12. Program 9129 Input Screen

```
MAMU9129    SHOP REPAIR CYCLE ASSETS (PRINT FORMS/SCHEDULE/CLOSE)
 BASE      SHOP       REPORT   MOCKUP/NBR                 MDS          OUTPUT
 INCLUDE SUPPLY    RECEIVE DATE,FROM:       TO:

  1) BASE CODE DEFAULTS TO THE AFI33-110  CODE FOR YOUR BASE
  2) TYPE SHOP MNEMONIC
  3) TYPE THE REPORT DESIRED. (MDS REQUIRED FOR PART NBR IF SHOP LEFT BLANK)
      SPACE=ALL JOBS   A=MAINT-TO-MAINT   C=CLOSED   D=DIFM STATUS    *=ALL DIFM
          F=AWF        H=DEFERRED         I=AWI      M=AWM            O=OAM
          P=AWP        R=CTR              S=SHIPPED  T=TRANSFERS      W=IN WORK
          #=PART NBR   +=STOCK NBR        $=DOC NBR  -=ID/SERIAL JOBS
  4) TYPE MOCKUP SELECTION OR LEAVE BLANK FOR ALL.OR TYPE P/N, NSN, DOC, ID/SER
  5) TYPE 'S' OR 'P' FOR SCOPE OR PRINTER OUTPUT OR  'U' FOR UPDATE.
  6) TYPE 'Y' TO INCLUDE SUPPLY, FROM & TO DATES FOR OUTPUT RANGE, PRESS ENTER.
 WHEN THE UPDATE REPORT RETURNS TO THE SCREEN, JOBS MAY BE CLOSED, SCHEDULED,
 DE-SCHEDULED, OR AFTO FORM 349/TAG PRINTED. PA2 KEY WILL SCRUB SCOPE REPORT.
 1) TO PRINT FORMS, OVERTYPE STATUS IN FRONT OF TAG WITH '3' FOR 349 OR
  'X' FOR 350 TAG OR 'B' FOR BOTH FORMS
 2)TO SCHEDULE, TYPE TIME/JULIAN DATE IN TSR IN FORMAT HHMM/YYDDD. ETJC MAY BE
  INPUT IN SAME FORMAT OR IF LEFT BLANK, WILL BE UPDATED BASED ON EST HRS.
  FORMS CAN BE REQUESTED AS ABOVE.
 3)TO DE-SCHEDULE, TYPE '9999' IN TSR.
 4)TO CHANGE EST HRS, OVERTYPE IN FORMAT HHT.
 5)TO CLOSE JOB, OVERTYPE STATUS IN FRONT OF TAG WITH A 'C'.
```

Table 4.8. Program 9129 Data Entry Fields

1). BASE 2). SHOP 3). REPORT 4). MOCK/NBR	5). MDS 6). OUTPUT 7). INCLUDE SUPPLY 8). RECEIVE DATE, FROM: TO

4.16.2. After access has been gained to Program 9129, follow these steps:

4.16.2.1. Leave the BASE field BLANK. The BASE code will default to the code for your base.

4.16.2.2. Enter the SHOP mnemonic. Enter the 5-position SHOP mnemonic that the AFTO Form 350 Tag(s) you wish to process are loaded against.

4.16.2.3. Enter the REPORT option or leave BLANK. Enter one of the selections from **Table 4.9.**. If left blank, all jobs will be displayed.

Table 4.9. Program 9129 Report Options.

A	Review all Maintenance-To-Maintenance (MTM) tags.
C	Review all closed tags.
D	Review DIFM status tags.
*	Review all DIFM status tags.
F	Review tags in Awaiting Testing (AWF) status.
H	Review deferred tags by work center.
I	Review tags in Awaiting Installation (AWI) status.
M	Review tags in Awaiting Maintenance (AWM) status.
O	Review tags in Retained On System status.
P	Review tags in Awaiting Parts (AWP) status.
R	Review tags on items under Contract Maintenance.
S	Review tags on Shipped components.
T	Review tags that have been transferred to other work centers.
W	Review tags In Work.
#	Selects all open tags for the PART NUMBER that you enter in the MOCKUP/NBR field. If you select PART NUMBER you must enter an MDS.
+	Selects all tags that have a STOCK NUMBER that matches the stock number you entered in the MOCKUP/NBR field.
$	Selects tags that have the first 6 or 8 positions of the DOCUMENT NUMBER that you entered in the MOCKUP/NBR field.
-	Selects all tags that have the ID or SERIAL NUMBER that you entered in the MOCKUP/NBR field.

4.16.2.4. Enter the MOCKUP/NBR or leave BLANK. This is a variable field. The input you make is dependent upon the option you selected in the REPORT field. If you are processing report options #, +, $, or -, you must input the corresponding stock number, part number, document number, or ID/serial number. If you selected the PART NUMBER (#) option, you must enter the MDS in the next block. Leave blank for any other REPORT option. Enter the word BLANK to select tags with no mockup number loaded.

4.16.2.5. Enter the MDS or leave BLANK. If you are processing report option # to display the AFTO Form 350 Tags by part number, you must enter a 7-position MDS in this field. The syntax in this field is critical. You must use spaces (-) to enter the appropriate number of characters. Choose the correct code from **Table 4.10.**.

Table 4.10. Program 9129 MDS Codes.

Code	MDS	Code	MDS	Code	MDS
--C005-	all C-5	--C130H	C-130H	-C135T	KC-135T
--C005A	C-5A	--EC130	EC-130	--C141-	all C-141
--C005B	C-5B	-KC010A	KC-10	--C141B	C-141B
--C005C	C-5C	-KC135-	all KC-135	--C141C	C-141C
--C009A	C-9	-C135E-	KC-135E	--C017A	all C-17A
--C130-	All C-130	-C135Q-	KC-135Q	--SE---	SE
--C130E	C-130E	--C130J	C-130J	-C135R-	KC-135R
--PMEL-	PMEL				

4.16.2.6. Enter the OUTPUT option. Entering an S in this field will provide a screen output of the tags you have selected. Each tag will be displayed as a separate message and will require the user to page through the selection. Selection can not be edited using this option. Entering a U will allow the user to update the data that returns to the screen. With this option, five 350 tags will be displayed and changes are made by typing over entries with the new data and pressing the ENTER key. If you do not want to update the record, scroll to the next message of output. Enter a P for printed output. ***NOTE:*** When you update the status to a C (to CLOSE the AFTO Form 350 Tag), and the final MDD action taken is an A, F, G, K, L, or Z, part 2 of the 350 tag will print at the designated supply printer at each base.

4.16.2.7. Y in the INCLUDE SUPPLY field or leave BLANK. If you want to view all supplies ordered for each tag, enter a Y in this field. A single line of supply information will follow each 350 tag displayed. ***NOTE:*** This option does not work with the U (update) output option.

4.16.2.8. Enter the RECEIVE DATE, FROM: TO: or leave BLANK. If interested in displaying AFTO Form 350 Tags based on the date they were received in the shop, enter a starting date in the FROM field and an ending date in the TO field. ***NOTE:*** Normally, the TO field is left blank to get the latest data.

4.16.2.9. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.16.3. Once G081 accepts the data it will return an output similar to the output shown in **Figure 4.14.**. If G081 rejects your input, it will return the Program 9129 screen with an error message letting you know what fields must be corrected.

Figure 4.13. Program 9129 Output Screen

```
9129       ALL JOBS  REPORT FOR LGMAE SHOP            28SEP98/1442 CST PAGE   1
 PERSONNEL AVAIL (3)  0 (57)  0 (9)  0       NEXT EXP ETJC             /
 M TAG 3SE0108 NOUN H1 HEATER                          ITEM SERIAL:
 UNIT HAS DEAD BATTERY
       :QGH001  /2651005TRANSFERRED TO LGMAE  97265/1206  DOC NUM:X405AG
 RCV             TSR             ETJC             HRS (HHT) 040   WUC: AGEPE









 TOTAL      1-     4.0  INW     0-     0.0  AWM     1-     4.0  AWP     0-     0.0
      PA1=NEXT SCREEN;PA2=NEXT MSG; OR TYPE N,+N,-N(N=NBR) AND ENTER FOR PAGING
```

4.17. Closing Out AFTO Form 350. Closing out an AFTO Form 350 Tag can be accomplished through Program 9128, however, it is more commonly accomplished through Program 9099, 9129 or 9129A. All four programs are basically the same relative to the data that must be entered. Even though the fields are very similar, the names of the fields vary.

4.17.1. To close out a discrepancy using Program 9099, process the data per the instructions listed in paragraph **5.10.**. When complete, overtype the ? with a Y in the CLOSED DISCREPANCY ? field.

4.17.2. When closing an AFTO Form 350 Tag using Program 9128, you must call up the program and enter the ACTION and SHOP on the top line of the screen, then begin entering the information for the tags being closed-out. Use ACTION code Z to update multiple tags. On each tag, you must enter the fields you are updating (STATUS, TIME/DATE, TSR DATE, EDJC DATE, or EMPLOYEE NUMBERS.)

4.17.3. Using Program 9129, the user may either close the AFTO Form 350 Tag, schedule/de-schedule, or print 349/350 forms. After processing the program as described in paragraph **4.16.**, simply update the output returned to your screen. Initially, the BASE, SHOP, REPORT option C, and OUTPUT option U, must be entered for close-out.

4.17.4. Program 9129A is a short form of Program 9129 that allows input without having to first get a report back to the screen and overtype data fields. AFTO Form 350 Tags can be closed, the status can be changed, scheduled or, de-scheduled using this program. The user may process up to five tags at one time. Initially, the BASE, SHOP, and TAG fields must be entered to call up the tag to be processed. **Figure 4.15.** is an example of a Program 9129A input screen.

Figure 4.14. Program 9129A Input Screen

```
MAMU9129                SHOP REPAIR CYCLE UPDATE
 BASE       SHOP        RECEIVE                                  EMPLOYEE
   TAG      STATUS     TIME/ DATE    TSR / DATE   ETJC/ DATE    NUMBER









    TAG - 350 TAG NO.
 STATUS - H = DEFERRED    I = AWI  O = OAM            3 = PRINT AFTO FORM 349
          W = IN WORK     M = AWM  F = AWF            X = PRINT 350 TAG
          C = CLOSE OUT   P = AWP  S = SHIPPED        B = PRINT BOTH 349 & 350
 RECEIVE- TIME/DATE PART RECEIVED IN SHOP OR RACC
    TSR - TIME/DATE SPECIALIST REQUIRED
   ETJC - ESTIMATED TIME/DATE OF JOB COMPLETION
 EMP NR - EMPLOYEE NUMBER SCHEDULED TO WORK THE TAG
 ALL DATES MUST BE IN JULIAN FORMAT (YYDDD)
```

4.18. General Information on AFTO Form 427, Aircraft Integral Fuel Tank Repair Historical Data. This form provides a history of fuel tank repair actions. Aircraft fuel tanks are, in most cases, an integral part of the vehicle structure and the critical nature of maintenance in these areas must be carefully and accurately documented to ensure safe operation. While many maintenance documents are temporary in nature and only provide status for a transitory period, the AFTO Form 427 can be viewed as a "living" document. It maintains a record that is critical throughout the service life of the aircraft.

4.19. Documenting Fuel Tank Repair. Program 9037A, *Aircraft Integral Fuel Tank Repair Historical Record* provides the capability to complete an AFTO Form 427 for integral fuel tank **repair.** The form is designed to accurately identify where the leak occurred, the severity of the leak, and the type of repair accomplished. Detailed information concerning all the requirements associated with the completion of the AFTO Form 427 is provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Document,* and TO 1-1-3, *Inspection and Repair of Aircraft Integral Tanks and Fuel Cells.*

4.20. Producing AFTO Form 427. Unlike many of the automated form addressed in this manual, Program 9037A allows complete processing of AFTO Form 427 without the use of other programs. In addition to SCAN or REPORT information, you may ADD, CHANGE, or DELETE information. In order to change or delete information you must first scan the information.

4.21. Processing Program 9037A. To add, view, change, or print an AFTO Form 427, you must first access Program 9037A in the G081 system. The screen pictured in **Figure 4.16.** will be presented on the terminal. **Table 4.11.** lists all of the fields that are to be discussed in the instructions. Optional fields are

explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.15. Program 9037A Input Screen

```
MAMU9037 A                        AFTO FORM 427
            AIRCRAFT INTEGRAL FUEL TANK REPAIR HISTORICAL RECORD
 TRANS_     KEY __   CEI _______ ACFT S/N __________  DATE              DEVICE
 WING _     TANK ____  WING STATION _______  STRINGER NUMBER      LEAK CLASS _
 TYPE REPAIR _   CAUSE OF LEAK _____________________________  PERF ORG______
 REMARKS


 INSTRUCTIONS:
     TRANS: ENTER TRANSAION CODE (A=ADD, C=CHANGE, D=DELETE, S=SCAN, R=REPORT)
     KEY: ENTER ACCESS KEY
     CEI: ENTER (MA0001A = C5 ACFT;  MA0001B = C141 ACFT; MA0001D = C17 ACFT;
                 MA0001E = C10 ACFT; MA0001F = C135 ACFT)
     SERIAL NUMBER: ENTER TEN DIGIT AIRCRAFT SERIAL NUMBER
     DATE: ENTER DATE OF ACTION (YYDDD OR DDMMYY)
     DEVICE: ENTER "S" FOR SCOPE OR "P" FOR PRINTER, WILL DEFAULT TO SCOPE
     WING: "L"-LEFT,"R"-RIGHT,"A"-AFT,"C"-CENTER,"F"-FORWARD,"U"-UPPER DECK
     TANK: ENTER NUMBER AND NOMENCLATURE OF TANK (EX: 1MAIN, 1AUX, 1ER, ETC.)
     WING STATION: ENTER WING STATION NUMBER FORMAT OF INPUT 9999.99
     STRINGER NUMBER: ENTER STRINGER NUMBER
     LEAK CLASS: ENTER ONE DIGIT LEAK CLASS (EX: A, B, C, D)
     TYPE REPAIR: ENTER "T" FOR TEMPORARY OR "P" FOR PERMANENT
     CAUSE OF LEAK: ENTER VARIABLE DATA STATING CAUSE OF LEAK
     PERF ORG: ENTER PERFORMING ORGANIZATION (EX: 436 FMS)
```

Table 4.11. Program 9037A Data Entry Fields

1). TRANS	9). WING STATION
2). KEY	10). STRINGER NUMBER
3). CEI	11). LEAK CLASS
4). ACFT S/N	12). TYPE REPAIR
5). DATE	13). CAUSE OF LEAK
6). DEVICE	14). PERF ORG
7). WING	15). REMARKS
8). TANK	

4.21.1. After accessing Program 9037A, follow these steps:

4.21.1.1. Enter the TRANS. Select the type of transaction to be processed from those listed on the G081 screen. When changing or deleting an existing form, a scan (transaction S) must first be performed.

4.21.1.2. Enter the KEY. This field requires a 2-position KEY, or access code, which is available through your local G081 Manager. ***NOTE:*** If you are ADDING to the AFTO Form 427 it is not necessary to have access to the KEY field. Only if you are CHANGING or DELETING information is the KEY code required. Example: SL (typical KEY format).

4.21.1.3. Enter the CEI. Enter the 7-position COMPONENT END ITEM (CEI) for the MDS you are documenting. Example: MA0001A (for C-5 aircraft).

4.21.1.4. Enter the ACFT S/N. Enter a 10-digit AIRCRAFT SERIAL NUMBER. This 10 digit number is the aircraft serial number preceded by 2 zeros. The 6-position aircraft ID is not valid for this transaction. Example: 0070000454 (C-5 aircraft 70000454).

4.21.1.5. When scanning (transaction S) or processing a report (transaction R) Press the ENTER key. When processing a CHANGE, tab to the TRANSACTION field and enter C, then tab to fields being changed and type over the existing data. When processing a DELETE, tab to the TRANSACTION field and enter D, then press ENTER. In either case, a verification message will appear on the screen informing of the action taken by G081. In the case of a report, the output product will appear as shown in **Figure 4.17.**.

Figure 4.16. Program 9037A Output (SCAN) Screen Example

```
MAMU9037 A                        AFTO FORM 427
           AIRCRAFT INTEGRAL FUEL TANK REPAIR HISTORICAL RECORD
 TRANS S   KEY     CEI MA0001A ACFT S/N 0070000454  DATE 86296 0808   DEVICE
 WING  R   TANK 4AUX   WING STATION 0000.00  STRINGER NUMBER      LEAK CLASS C
 TYPE REPAIR P CAUSE OF LEAK SEALANT FAILURE ACCESS PNL       PERF ORG 436 FMS
 REMARKS

 ACTIVITY ACCEPTED-MORE HISTORY IN DATA BASE. PRESS ENTER TO CONTINUE.
 INSTRUCTIONS:
     TRANS: ENTER TRANSAION CODE (A=ADD, C=CHANGE, D=DELETE, S=SCAN, R=REPORT)
     KEY: ENTER ACCESS KEY
     CEI: ENTER (MA0001A = C5 ACFT;  MA0001B = C141 ACFT; MA0001D = C17 ACFT;
                 MA0001E = C10 ACFT; MA0001F = C135 ACFT)
     SERIAL NUMBER: ENTER TEN DIGIT AIRCRAFT SERIAL NUMBER
     DATE: ENTER DATE OF ACTION (YYDDD OR DDMMYY)
     DEVICE: ENTER "S" FOR SCOPE OR "P" FOR PRINTER, WILL DEFAULT TO SCOPE
     WING: "L"-LEFT,"R"-RIGHT,"A"-AFT,"C"-CENTER,"F"-FORWARD,"U"-UPPER DECK
     TANK: ENTER NUMBER AND NOMENCLATURE OF TANK (EX: 1MAIN, 1AUX, 1ER, ETC.)
     WING STATION: ENTER WING STATION NUMBER FORMAT OF INPUT 9999.99
     STRINGER NUMBER: ENTER STRINGER NUMBER
     LEAK CLASS: ENTER ONE DIGIT LEAK CLASS (EX: A, B, C, D)
     TYPE REPAIR: ENTER "T" FOR TEMPORARY OR "P" FOR PERMANENT
     CAUSE OF LEAK: ENTER VARIABLE DATA STATING CAUSE OF LEAK
     PERF ORG: ENTER PERFORMING ORGANIZATION (EX: 436 FMS)
```

4.21.1.6. Enter the DATE or leave BLANK. If you are researching a specific action and know the date of the action, enter it in the DATE field to speed up your search process. Enter the DATE of action in either YYDDD or DDMMYY format. ***NOTE:*** This field can not be changed.

4.21.1.7. Enter the DEVICE code or leave BLANK. The DEVICE field allows you to determine how the information will be displayed. An S in this field will generate your information on the computer screen, a P will cause the report to be printed to the LTERM assigned to you via program 9072. If no entry is made G081 will default to the screen option.

4.21.1.8. Enter the WING. Enter an option from those listed on the G081 screen. Example: L (for the left wing).

4.21.1.9. Enter the TANK. Enter the number and nomenclature of the tank. Example: 2 MAIN (number 2 main fuel tank).

4.21.1.10. Enter the WING STATION or leave BLANK. Enter the WING STATION number, if known.

4.21.1.11. Enter the STRINGER NUMBER or leave BLANK. Enter the 1-position STRINGER NUMBER, if known.

4.21.1.12. Enter the LEAK CLASS. Enter one of the LEAK CLASS codes from those listed on the G081 screen. Example: D (for running leak).

4.21.1.13. Enter the TYPE REPAIR. Enter a T for a temporary repair or a P for a permanent repair.

4.21.1.14. Enter the CAUSE OF LEAK Give a brief description of the CAUSE of LEAK. Example: HOLE IN TANK.

4.21.1.15. Enter the PERF ORG. Enter the PERFORMING ORGANIZATION in this field. Example: 436 AMS.

4.21.1.16. Enter the REMARKS section or leave BLANK. If there is any additional pertinent information pertaining to the leak, enter it in this field.

4.21.1.17. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.21.2. If your actions are accepted by G081, your screen will appear as shown in **Figure 4.18.**. If G081 rejects your input, it will return the Program 9037A screen with an error message letting you know what fields must be corrected.

Figure 4.17. Program 9037A Output Screen Example

```
MAMU9037 A                          AFTO FORM 427
            AIRCRAFT INTEGRAL FUEL TANK REPAIR HISTORICAL RECORD
 TRANS A   KEY     CEI MA0001A ACFT S/N 0070000454  DATE 86296 0808   DEVICE
 WING  C   TANK 2MAIN   WING STATION 0000.00  STRINGER NUMBER      LEAK CLASS D
 TYPE REPAIR P CAUSE OF LEAK HOLE IN TANK                  PERF ORG 436 FMS
 REMARKS

 ACTIVITY ACCEPTED-ADD TRANSACTION PROCESSED.
 INSTRUCTIONS:
     TRANS: ENTER TRANSAION CODE (A=ADD, C=CHANGE, D=DELETE, S=SCAN, R=REPORT)
     KEY: ENTER ACCESS KEY
     CEI: ENTER (MA0001A = C5 ACFT;  MA0001B = C141 ACFT; MA0001D = C17 ACFT;
                 MA0001E = C10 ACFT; MA0001F = C135 ACFT)
     SERIAL NUMBER: ENTER TEN DIGIT AIRCRAFT SERIAL NUMBER
     DATE: ENTER DATE OF ACTION (YYDDD OR DDMMYY)
     DEVICE: ENTER "S" FOR SCOPE OR "P" FOR PRINTER, WILL DEFAULT TO SCOPE
     WING: "L"-LEFT,"R"-RIGHT,"A"-AFT,"C"-CENTER,"F"-FORWARD,"U"-UPPER DECK
     TANK: ENTER NUMBER AND NOMENCLATURE OF TANK (EX: 1MAIN, 1AUX, 1ER, ETC.)
     WING STATION: ENTER WING STATION NUMBER FORMAT OF INPUT 9999.99
     STRINGER NUMBER: ENTER STRINGER NUMBER
     LEAK CLASS: ENTER ONE DIGIT LEAK CLASS (EX: A, B, C, D)
     TYPE REPAIR: ENTER "T" FOR TEMPORARY OR "P" FOR PERMANENT
     CAUSE OF LEAK: ENTER VARIABLE DATA STATING CAUSE OF LEAK
     PERF ORG: ENTER PERFORMING ORGANIZATION (EX: 436 FMS)
```

4.22. General Information on AMC FORM 91, Nondestructive Inspection Record. This form provides a history of Nondestructive Inspection (NDI) actions. NDI describes a variety of testing techniques such as X-ray, Ultrasound or Magnaflux, which can be used to evaluate structural integrity and predict component failure. While many maintenance documents are temporary in nature and only provide status for a transitory period, AMC Form 91, like the other forms in this chapter can be viewed as a “living” document. Maintaining this record is critical to the safe operation of the equipment being documented.

4.23. Documenting NDI Actions. Program 9037B, *Nondestructive Inspection Record*, provides the capability to document NDI actions on AMC Form 91. It allows a permanent record to be produced that records the date, technique, technician, and the results of these vital inspections.

4.24. Producing AMC Form 91. Program 9037B is used to add, change, or delete information as well as scan and print data. Unlike many of the automated form addressed in this manual, this program allows full processing of AMC Form 91 without the use of other programs.

4.25. Program 9037B Processing Instructions. To produce an AMC Form 91, you must first access Program 9037B in the G081 system. The screen pictured in **Figure 4.19.** will be presented on the terminal. **Table 4.12.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 4.18. Program 9037B Input Screen

```
MAMU9037 B                  AMC FORM 91
 TRANS   KEY    CEI          ID/SERIAL#            DATE              BASE
 TYPE FILE   A/C MDS         ENG S/N        POS    ACFT HRS      .
 METHOD(S)       EMP#        AREA INSP                      RPT STOP DATE
 RESULTS



 INSTRUCTIONS:  TRANS: A=ADD C=CHANGE D=DELETE S=SCAN R=REPORT
                KEY: VALID KEY REQUIRED FOR ALL TRANSACTIONS EXCEPT S=SCAN
                CEI: ENTER CEI FOR A/C EX: MA0001A, MA0001B, MA0001C, OR MA0001D
                ID/SERIAL#: ENTER AIRCRAFT 10 POSITON SERIAL #
                DATE: ENTER YR AND JULIAN DATE INSPECTION COMPLETED EX: 88001
                BASE: N/A - WILL COME FROM L-TERM
                TYPE FILE: R=REOCCURING O=ONETIME E=ENG ONLY X=ALL 3 FILES
                A/C MDS: ENTER AIRCRAFT MODEL# EX: C005A; C141B
                ENG S/N: ENTER 6 POSITION ENGINE SERIAL NUMBER
                POS: ENTER POSITION ON AIRCRAFT   EX: 1;2;3;4
                ACFT HRS: ENTER HOURS ON AIRCRAFT(HHHHHT) DECIMAL POINT DROPPED
                METHOD(S): ENTER NDI METHOD(S) USED EX: 0=ET;1=MT;7=X-RAY;8=UT
                EMP#: ENTER 5 POSITION EMP #
                AREA INSP: DESCRIPTION OF AREA INSPECTED
                RESULTS: GIVE COMPLETE DESCRIPTION OF DISCREPANCIES FOUND
```

Table 4.12. Program 9037B Data Entry Fields.

1). TRANS	9). ENG S/N
2). KEY	10). POS
3). CEI	11). ACFT HRS
4). ID/SERIAL#	12). METHOD(S)
5). DATE	13). EMP#
6). BASE	14). AREA INSP
7). TYPE FILE	15). RPT STOP DATE
8). A/C MDS	16). RESULTS

4.25.1. After accessing Program 9037B, follow these steps:

4.25.1.1. Enter the TRANS. Select and enter one of the five options on the G081 screen. ***NOTE:*** In order to CHANGE or DELETE information you must SCAN the data first by calling up the specific record from Program 9037B. This requires as a minimum, entries in the TRANS, KEY, CEI, ID/SERIAL#, DATE, and A/C MDS (or ENGINE S/N) fields. The DATE is needed to find the exact entry that you want to CHANGE or DELETE on the AMC Form 91. If the date is omitted, the report will start with the first entry on the AMC Form 91 for the aircraft and the user will be forced to scroll through the document until finding the specific record.

4.25.1.2. Enter the KEY. This field requires a 2-position KEY, or access code, which is available through your local G081 Manager. Example: SL (typical KEY format).

4.25.1.3. Enter the CEI. Enter the 7-position COMPONENT END ITEM (CEI) for the MDS being documented. Example: MA0001A (C-5 aircraft CEI).

4.25.1.4. Enter the ID/SERIAL#. Enter a 10-digit IDENTIFICATION/SERIAL NUMBER. This 10 digit number is the aircraft serial number preceded by 2 zeros. The 6-position aircraft ID is not valid for this transaction. Example: 0070000454 (C-5 serial number).

4.25.1.5. Enter the DATE. Enter the DATE of action by entering the YEAR and JULIAN DATE in the YYDDD format.

4.25.1.6. Leave the BASE field BLANK. This is not a valid field. G081 will use the BASE that is programmed to correspond with the user's L-TERM.

4.25.1.7. Enter the TYPE FILE. Enter a selection from one of the options listed on the G081 screen. Example: R (for recurring inspection).

4.25.1.8. Enter the A/C MDS. This identifies the MISSION DESIGN SERIES (MDS). Enter the desired aircraft type MDS. Example: C005 (for C-5 aircraft).

4.25.1.9. Enter the ENGINE S/N or leave BLANK. If processing this program for an engine, enter the 6-position ENGINE SERIAL NUMBER in this field.

4.25.1.10. When scanning (transaction S) or processing a report (transaction R), Press the ENTER key. When processing a CHANGE, tab to the TRANSACTION field and enter C, then tab to fields being changed and type over the existing data. When processing a DELETE, tab to the TRANSACTION field and enter D, then press ENTER. In either case, a verification message will appear on the screen informing of the action taken by G081. In the case of a report, the output product will appear as shown in **Figure 4.20.**. You must continue to press the ENTER key to scroll down the record.

Figure 4.19. Program 9037B Output (SCAN) Screen Example

```
MAMU9037 B                  AMC FORM 91
 TRANS S KEY    CEI MA0001A ID/SERIAL# 0070000454 DATE 88175 1430  BASE
 TYPE FILE R A/C MDS C005A  ENG S/N 441298 POS 4  ACFT HRS 12057.0
 METHOD(S) 9XXXX EMP# 00917 AREA INSP #4 ENG CRF STRUT EN RPT STOP DATE
 RESULTS A #2 STRUT END CRACKED 3/8".  (NO PROGRESSION)



 ACTIVITY ACCEPTED-MORE HISTORY IN DATA BASE. PRESS ENTER TO CONTINUE
  INSTRUCTIONS:  TRANS: A=ADD C=CHANGE D=DELETE S=SCAN R=REPORT
                 KEY: VALID KEY REQUIRED FOR ALL TRANSACTIONS EXCEPT S=SCAN
                 CEI: ENTER CEI FOR A/C EX: MA0001A, MA0001B, MA0001C, OR MA0001D
                 ID/SERIAL#: ENTER AIRCRAFT 10 POSITON SERIAL #
                 DATE: ENTER YR AND JULIAN DATE INSPECTION COMPLETED EX: 88001
                 BASE: N/A - WILL COME FROM L-TERM
                 TYPE FILE: R=REOCCURING O=ONETIME E=ENG ONLY X=ALL 3 FILES
                 A/C MDS: ENTER AIRCRAFT MODEL# EX: C005A; C141B
                 ENG S/N: ENTER 6 POSITION ENGINE SERIAL NUMBER
                 POS: ENTER POSITION ON AIRCRAFT   EX: 1;2;3;4
                 ACFT HRS: ENTER HOURS ON AIRCRAFT(HHHHHT) DECIMAL POINT DROPPED
                 METHOD(S): ENTER NDI METHOD(S) USED EX: 0=ET;1=MT;7=X-RAY;8=UT
                 EMP#: ENTER 5 POSITION EMP #
                 AREA INSP: DESCRIPTION OF AREA INSPECTED
                 RESULTS: GIVE COMPLETE DESCRIPTION OF DISCREPANCIES FOUND
```

4.25.1.11. Enter the POS or leave BLANK. If you entered an engine serial number in step 4.25.1.9., enter the relative position of the engine on the aircraft.

4.25.1.12. Enter the ACFT HOURS or leave BLANK. Enter the total airframe HOURS on the aircraft at the time of the inspection. Do not enter tenths of hours, drop all decimal points.

4.25.1.13. Enter the METHOD(S). Enter the Nondestructive Inspection methods used for the inspection from the selections listed on the G081 screen. Example: 7 (for X-RAY).

4.25.1.14. Enter the Employee (EMP) #. Enter the 5-position EMPLOYEE NUMBER of the person who completed the inspection.

4.25.1.15. Enter the AREA INSP. Enter a description of the AREA INSPECTED. Example: #4 ENG CRF STRUT.

4.25.1.16. Enter the RPT STOP DATE or leave BLANK. If you are processing transaction R, enter the REPORT STOP DAY in this field. Enter the STOP DATE by YEAR and JULIAN DATE in the YYDDD format.

4.25.1.17. Enter the RESULTS. Enter a complete description of the all discrepancies found during the inspection. Example: #2 STRUT END CRACKED 3/8". (NO PROGRESSION).

4.25.1.18. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

4.25.2. If your actions are accepted by G081 your screen will appear as shown in Figure 4.20. If G081 rejects your input, it will return the Program 9037A screen with an error message letting you know what fields must be corrected.

Figure 4.20. Program 9037B Output Screen Example

```
MAMU9037 B                  AMC FORM 91
 TRANS A KEY    CEI MA0001A ID/SERIAL# 0070000454 DATE 88175 1430  BASE
 TYPE FILE R A/C MDS C005A  ENG S/N 441298 POS 4  ACFT HRS 12057.0
 METHOD(S) 9XXXX EMP# 00917 AREA INSP #4 ENG CRF STRUT EN RPT STOP DATE
 RESULTS A #2 STRUT END CRACKED 3/8".  (NO PROGRESSION)


 ACTIVITY ACCEPTED-ADD TRANSACTION PROCESSED
 INSTRUCTIONS:  TRANS: A=ADD C=CHANGE D=DELETE S=SCAN R=REPORT
                KEY: VALID KEY REQUIRED FOR ALL TRANSACTIONS EXCEPT S=SCAN
                CEI: ENTER CEI FOR A/C EX: MA0001A, MA0001B, MA0001C, OR MA0001D
                ID/SERIAL#: ENTER AIRCRAFT 10 POSITON SERIAL #
                DATE: ENTER YR AND JULIAN DATE INSPECTION COMPLETED EX: 88001
                BASE: N/A - WILL COME FROM L-TERM
                TYPE FILE: R=REOCCURING O=ONETIME E=ENG ONLY X=ALL 3 FILES
                A/C MDS: ENTER AIRCRAFT MODEL# EX: C005A; C141B
                ENG S/N: ENTER 6 POSITION ENGINE SERIAL NUMBER
                POS: ENTER POSITION ON AIRCRAFT   EX: 1;2;3;4
                ACFT HRS: ENTER HOURS ON AIRCRAFT(HHHHHT) DECIMAL POINT DROPPED
                METHOD(S): ENTER NDI METHOD(S) USED EX: 0=ET;1=MT;7=X-RAY;8=UT
                EMP#: ENTER 5 POSITION EMP #
                AREA INSP: DESCRIPTION OF AREA INSPECTED
                RESULTS: GIVE COMPLETE DESCRIPTION OF DISCREPANCIES FOUND
```

Chapter 5

SUPPLEMENTAL PROGRAMS

5.1. Using Supplemental Programs to Support Automated Forms Functions. In a large management information system such as G081, complex relationships exist between various methods of entering and extracting data. A report being generated may use data elements that are stored in several files, collate them and produce a report meeting the user's needs. Several of the G081 programs discussed in earlier chapters require entries to be made in associated programs for this reason. The purpose of the supplemental programs addressed in this chapter are to aid in updating information required to generate the automated forms addressed in the previous chapters. Keep in mind that the programs in this chapter accomplish a host of functions and this manual only covers those steps necessary to assist you in accomplishing automated forms.

5.2. Supplemental Forms Presented in This Manual. The programs listed in **Table 5.1.** are shown associated with the automated forms that they support.

Table 5.1. Supplemental Programs

Program	Title	Automated Form
9010	Discrepancy Completion	781A
9020	Flying Hour, Gear Cycle, and Engine Cycle Data Input	781D
9040	Batch Discrepancy Input	781A
9050	Input Aircraft Discrepancies	781A/K
9099	MDC Input Program	781A

5.3. General Information on AFTO Form 781D, Calendar and Hourly Inspection Document. The AFTO Form 781D can be used independently to track inspection requirements or may be used in conjunction with the AFTO Form 781K, **Aerospace Vehicle Inspection, Engine Data, Calendar Inspection, and Delayed Discrepancy Document.** When the option to use the AFTO Form 781D for inspection requirements, block G of the AFTO Form 781K must be annotated to reflect this decision. Responsibility for keeping the AFTO Form 781D current rests with the aircraft Crew Chief and the Plans, Scheduling and Documentation section.

5.3.1. The programs discussed in this section have many functions, including; establishing, updating, or deleting inspections and producing automated AFTO Forms 781D for a given aircraft. Normally, updates to inspection data in these programs occurs by processing Program 9020, *Flying Hour, Gear Cycle, and Engine Cycle Data Input.*

5.4. Tracking Inspection Requirements. This document is used to track calendar and hourly inspection requirements. The G081 programs listed in **Table 5.2.** produce automated AFTO Form 781D. Take note that each type aircraft has a different G081 program. Detailed information concerning all the requirements associated with the completion of the AFTO Form 781D is provided in TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents.*

Table 5.2. AFTO Form 781D G081 Programs

AIRCRAFT	G081 PROGRAM	TITLE
C-5	9031	Dash 6 Inspection Update (C005)
C-17	9078	Dash 6 Inspection Update (C017)
KC-10	9080	Dash 6 Inspection Update (KC010)
KC-135	9082	Dash 6 Inspection Update (KC135)
C-9	9084	Dash 6 Inspection Update (C009)
C-130	9086	Dash 6 Inspection Update (C130)
C-141	9121	Dash 6 Inspection Update (C141)

5.4.1. These programs produce the form requested and can also be used to alter or update the form. If an error exists, the error needs to be corrected and a new form printed.

5.5. G081 Program Processing Instructions for AFTO Form 781D. To print Form 781D, you must first access the G081 program associated with your aircraft type from the listing in **Table 5.2.** As previously stated, each Mission, Design, Series (MDS) has its own G081 program to provide an AFTO Form 781D. The program inputs are the same for each type aircraft. Only the program numbers are different. The screen pictured in **Figure 5.1.** will be presented on the terminal and is typical of any of the programs you process. ***NOTE:*** The following example uses Program 9031 for C-5 aircraft, but is typical of the program for all aircraft types. **Table 5.3.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data.

Figure 5.1. Program 9031 Input Screen

```
MAMU9031   ACTION      A/C SERIES    DEVICE
 A/C SERIAL          THRU           TYPE(I/R)    SYSTEM     PARAG     SUBPARAG
 ACCESS KEY     INSTALLED LOCATION     DATE INSTALLED        DATE MFG

 LIFE-RAFT CASE    HOURS LAST INSP        DATE LAST INSP        SCRUB DISC
 PACING CEI          PACING SERIAL
 LANDING LST INSP        WRK CNTR NAME        LST PDM DATE        SERIAL
 PART NUM                   LOT NUM

 LINE1
 LINE2
 LINE3

 HOURS 1ST INSP        HOUR/CYCLE INCREMENT        MONTH INCR     DAY INCR

 T.O.DATA CODE          LOGIC    WORK UNIT CODE        JOB STD:MEN     HRS(HHT)

 NOUN                        FSN                  ACCRUED DAYS        ZONE
 ACCRUED HOURS         NUMBER ISOC ACCOMP        NEW -6 KEY

 ISOC COUNT LAST INSP       FORECAST AMA         RCDS-ACTION(1/2)
 REPLACEMENT QUANTITY     OPEN JCN           LAST COMPLETED JCN
           ACTIVITY           MAMOTSC  98243   13432681
```

Table 5.3. Program 9031 Data Entry Fields.

1). ACTION
2). DEVICE
3). A/C SERIAL

5.5.1. After access has been gained to the appropriate program, follow these steps:

5.5.1.1. Enter the ACTION. Because you are processing this program to print the automated AFTO Form 781D, you will enter action code Z. Other options pertain to -6 inspection information. Example: Z (print 781D action command).

5.5.1.2. Enter the DEVICE or leave BLANK. The DEVICE field allows you to determine how the information will be displayed. Entering a P will result in a printed copy of the AFTO Form 781D. Entering an S results in a screen display. If no entry is made G081 will default to the screen option.

5.5.1.3. Enter the A/C SERIAL. Enter the 8-position AIRCRAFT SERIAL NUMBER or ALL for the entire fleet. Example: 70000454 (C-5 serial number).

5.5.1.4. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

5.5.2. At that time, the AFTO Form 781D for the aircraft you designated will be printed, or will appear on your screen depending on the option you selected. **Figure 5.2.** is an example of a typical output product.

Figure 5.2. Program 9031 Output Screen Example

```
G08107184-1  DATE FROM: 2000/05/25 TO ____/__/__ AUTOMATED AFTO FORM 781D  MDS:  C005B SERIAL NUMBER: 85000004 PAGE 001 OF ___ PAGE
S

                                                SPECIAL INSPECTION AND MAINTENANCE

LG SYS PAR LOC SHOP   PACING   SERIAL        NOUN          LAST   LAST INSP          INCREMENT     ACCRUED          WHEN DUE
CD           MNEMON   CEI      NUMBER                      JCN       ON     HOURS  DAYS HRS/CYC  DAYS  HOURS

X  05  01A     LGLOS                        DOCUMENT REVIEW  0351659 2000/02/07 12579    30                    2000/03/08*JCN 0641647/A
T  05  01K     LGMCC                        ADS FUNCTIONAL C 0211662 2000/01/21 12568    90                    2000/04/20*JCN 1071621/A
C  05  03D     DOCK                         AFT PRESS DR BRA 3341627 1999/12/14 12498                                NEXT ISO
M  11  12B     DOCK                         CREW COMPT.LONGE 3341638 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12C     DOCK                         VISOR HINGE FITT 3341639 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12D     DOCK                         ENVX. COMP.STRUC 3341640 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12E     DOCK                         CENTER WING LONG 3341641 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12F     DOCK                         CENTER WING STRI 3341642 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12G     DOCK           ADDS11        UPPER AFT FUSELA 3341643 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12H     DOCK                         SPLICE FITTING F 3341644 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12I     DOCK                         AFT BACKUP FITTI 3341645 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12J     DOCK                         FWD BACKUP FITTI 3341646 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12K     DOCK                         UPPER LOBE FITTI 3341647 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12L     DOCK                         FWD RAMP LOCK    3341648 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12M     DOCK                         VISOR DOOR SKIN  3341649 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12N     DOCK                         AFT RAMP LOCK    3341650 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12O     DOCK                         LOWER SPLICE FIT 3341651 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12P     DOCK                         FWD FRAME FITTIN 3341652 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12Q     DOCK                         AFT BACKUP FITTI 3341653 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12R     DOCK                         DORSAL FIN AFT F 3341654 1999/12/13 12498                              DUE AT ISO NBR  22
M  11  12S     DOCK                         HORIZONTAL STAB. 3341655 1999/12/13 12498                              DUE AT ISO NBR  22
M  11  12T     DOCK                         DORSAL LONGERON  3341656 1999/12/13 12498                              DUE AT ISO NBR  22
M  11  12U     DOCK                         SCANNING WINDOWS 3341657 1999/11/30 12498                              DUE AT ISO NBR  22
M  11  12Z     DOCK                         ENVIRON. COMPT.  3341637 1999/11/30 12498                              DUE AT ISO NBR  22
U  11  13A     DOCK                         SPLICE FITTING I 0111655 2022/01/19 11566  200 LANDING               DATE DUE 2001/01/31
O  11  14B     DOCK                         UPPER SILL CHANN 1691659 1996/06/26  9401                              DUE AT ISO NBR  20
O  11  14C     DOCK                         FLOOR BEAM SPLIC 1691660 1996/06/26  9401                              DUE AT ISO NBR  20
O  11  14D     DOCK                         FLOOR BEAM SPLIC 1691661 1996/06/26  9401                              DUE AT ISO NBR  20
O  11  14E     NDIS                         RUDDER ACTUATOR  3471642 1998/01/08 10879                              DUE AT ISO NBR  22
T  11  16A     NDIS                         JACKING ADAPTERS 0111656 2001/08/17 11566  1080                      DATE DUE 2004/08/01
T  11  16B     MU1A                         JACK PAD ADAPTER 0111657 2022/01/19 11566  1080                      DATE DUE 2025/01/03
T  11  16C     NDIS                         JACK ADPTR. BOLT 0111658 1999/01/20 11566   900                      DATE DUE 2001/07/08
O  13  07A     DOCK                         MLG KNEEL GEARBO 1691662 1996/06/26  9401                              DUE AT ISO NBR  20
I  13  08A     NDIS                         BB PIN & PP PIN  3341658 1999/12/10 12498                              DUE AT ISO NBR  20
M  14  04A     ARXX           REQ-95-ENT    PITCH TRIM ACTUA 3341659 1999/11/30 12498                              DUE AT ISO NBR  22
O  14  05A  LT NDIS                         CARR ASSEMBLY,#1 1691666 1996/06/21  9401                              DUE AT ISO NBR  20
O  14  05A  RT NDIS                         CARR ASSEMBLY,#1 1691667 1996/06/21  9401                              DUE AT ISO NBR  20
C  23  10A  02 ARXX                         FAN FRAME LINER  3341628 1999/12/14 12498                                   NEXT ISO
O  24  02A  LH ELEN                         APU BLEED AIR VA 1691673 1996/06/25  9401                              DUE AT ISO NBR  20
O  24  02A  RH ELEN                         APU BLEED AIR VA 1691674 1996/06/25  9401                              DUE AT ISO NBR  20
O  41  01A     ELEN                         RAM AIR VENT CK  1691675 1996/06/25  9401                              DUE AT ISO NBR  20
O  41  01B     ELEN                         A/C BYPASS CK VA 1691676 1996/06/25  9401                              DUE AT ISO NBR  20
O  41  01C     ELEN                         AIR CYCLE SYS CK 1691677 1996/06/25  9401                              DUE AT ISO NBR  20
O  41  01D     ELEN                         COOLING CHECK VA 1691678 1996/06/25  9401                              DUE AT ISO NBR  20
O  41  01E     ELEN                         BLEED AIR COMPEN 1691679 1996/06/25  9401                              DUE AT ISO NBR  20
V  55  01A     RFRB                         MADAR II CONT FI 3341629 1999/12/13 12498                             EST DUE 2000/07/10
V  55  02A     RFRB                         MADAR II DISP FI 3341630 1999/12/13 12498                             EST DUE 2000/07/10
V  55  03A     RFRB                         MADAR II M-P FIL 3341631 1999/12/13 12498                             EST DUE 2000/07/10
T  61  01A     GF1A                         INSP KYV-5 BATT                          30                          **NEED DATE LAST INSP
7  62  01A                                  KY-58
T  65  01A     GF1A                         INSP KIT-1C BATT                         180                         **NEED DATE LAST INSP
V  66  03A     RFRB                         COCKPIT VOICE RE 3341632 1999/11/30 12498                              EST DUE 2000/06/27
V  66  04A     RFRB                         ELT OPERATIONAL  3341633 1999/11/30 12498                              EST DUE 2000/06/27
V  66  05A     RFRB                         DIGITAL FLT DATA 3341634 1999/12/13 12498                              EST DUE 2000/07/10
5  91  01A     HSCA                         ESC SLIDE RESERV 0621696 1997/03/10 10084 36 MO                        EST DUE 2001/01/31
5  91  01C     HSCA                         LIFE RAFT AIR BO 0621697 1997/03/10 10084 36 MO                        EST DUE 2001/01/31
W  98  03B     WASH                         EXTERIOR WS1     3391685 1999/12/06 12498   105                      2000/03/20*JCN 0761677/A
```

```
G08107184-1  DATE FROM: 2000/05/25 TO ____/__/__ AUTOMATED AFTO FORM 781D  MDS:  C005B SERIAL NUMBER: 85000004 PAGE 002 OF ___ PAGE
S

                                                REPLACEMENT SCHEDULE

LG SYS PAR LOC SHOP  PACING   SERIAL          NOUN          LAST  INSTALLED        INCREMENT     ACCRUED          WHEN DUE
CD           MNEMON  CEI      NUMBER                        JCN       ON    HOURS DAYS HRS/CYC DAYS  HOURS

D  11  01A     DEPOT                    INNER TENSION BO        1986/12/03     0        15000              REMAINING HOURS  2407
D  11  01C     DEPOT                    OUTER TENSION BO        1986/12/03     0        15000              REMAINING HOURS  2407
   23  01A 01 JEIM  GE0056A 00MDAD4880 TF39-1 ENG. REPLA                                15000 HOURS  7285.5  CHANGE DUE   7714.5 HR
S
   23  01A 02 JEIM  GE0054A 00MDAP3245 TF39-1 ENG. REPLA                                30000 HOURS 19971.6  CHANGE DUE  10028.4 HR
S
   23  01A 03 JEIM  GE0056A 00MDAD5052 TF39-1 ENG. REPLA        1995/06/01              15000 HOURS  8097.5  CHANGE DUE   6902.5 HR
S
   23  01A 04 JEIM  GE0057A 00FAF01774 TF39-1 ENG. REPLA                                15000 HOURS  3338.0  CHANGE DUE  11662.0 HR
S
   23  02A 01 JEIM  GE0039A 00PM010181 LIFE LIMIT PARTS                                 10000 CYCLS    3746    CHANGE DUE  6254 CYC
S
   23  02A 02 JEIM  GE0029A 00RP024722 LIFE LIMIT PARTS                                  4900 CYCLS    3935    CHANGE DUE   965 CYC
S
   23  02A 03 JEIM  GE0039A 00MP0V4784 LIFE LIMIT PARTS        1994/06/01                4900 CYCLS     800    CHANGE DUE  4100 CYC
S
   23  02A 04 JEIM  GE0046A 00TMTED048 LIFE LIMIT PARTS                                  4200 CYCLS      36    CHANGE DUE  4164 CYC
S
   97  01A 1A ELEN                      ENGINE FIRE EXT.  0621698                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 1P ELEN                      ENGINE FIRE EXT.  0621699                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 2A ELEN                      ENGINE FIRE EXT.  0621600                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 2P ELEN                      ENGINE FIRE EXT.  0621601                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 3A ELEN                      ENGINE FIRE EXT.  0621602                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 3P ELEN                      ENGINE FIRE EXT.  0621603                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 4A ELEN                      ENGINE FIRE EXT.  0621604                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01A 4P ELEN                      ENGINE FIRE EXT.  0621605                              60 MNTHS              DOI DUE     2002/03/11
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-003
   97  01B LA ELEN                      APU FIRE EXT. SQU 0701605                              60 MNTHS              DOI DUE     2002/07/30
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-015
   97  01B LP ELEN                      APU FIRE EXT. SQU 0701606                              60 MNTHS              DOI DUE     2002/07/30
                                            PART NUM: 805300-2          LOT NUM: AEN96H001-015
   97  01B RA ELEN                      APU FIRE EXT. SQU 1521612                              72 MNTHS              DOM DUE     2003/05/31
                                            PART NUM: 805300-2          LOT NUM: AEN97E001-016
   97  01B RP ELEN                      APU FIRE EXT. SQU 1521613                              72 MNTHS              DOM DUE     2003/05/31
                                            PART NUM: 805300-2          LOT NUM: AEN97E001-016

                                        END OF REPORT FOR AIRCRAFT 85000004

                                                END OF REPORT
```

5.6. Updating Flying Hour Data. Program 9020, *Flying Hour, Gear Cycle and Engine Cycle Data Input*, provides the capability to input flying hour data, landing gear cycle data, and engine cycle data which is used by operational and logistics managers for assessing mobility, mission capability and aiding in long-range purchase and stock control decisions. Information required to complete the form is provided by the flight crew and communicated to maintenance activity through the use of AFTO Form 781, **Aircraft Flight Data Record.** It is possible to input up to six lines of data for each entry using this program.

5.7. Processing Instructions for Program 9020. To update flying time information, you must first access Program 9020 in the G081 system. The screen pictured in **Figure 5.3.** will be presented on the terminal. **Table 5.4.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 5.3. Program 9020 Input Screen

```
MAMU9020 BASE     SN         SCAN DT      ENG
-----------------------------------------------------------------------------------------------------------------------
----------
TO  ASSG       STP  ALL  GR   SOR-  TO    TO    LD    LD
TR DATE   ST   LD   LD   CYC  TIES  TIME  ICAO  TIME  ICAO EN1 OT EN2 OT EN3 OT EN4 OT

SQD      MISSION: SYMBOL     NUMBER                  LEG

SQD      MISSION: SYMBOL      NUMBER                  LEG

SQD      MISSION: SYMBOL      NUMBER                  LEG

SQD      MISSION: SYMBOL      NUMBER                  LEG

SQD      MISSION: SYMBOL      NUMBER                  LEG

SQD      MISSION: SYMBOL      NUMBER                  LEG


NOTE: ON RETURNED SCREENS, CORRECT THE REJECTED LINES AND HIT ENTER
ENTRY LINES FOLLOWED BY "DEL/OK" WILL NOT BE PROCESSED.
```

Table 5.4. Program 9020 Data Entry Fields

1). BASE	10). GR CYC	19). OT
2). SN	11). SORTIES	20). EN3
3). SCAN DT	12). TO TIME	21). OT
4). ENG	13). TO ICAO	22). EN4
5). TR	14). LD TIME	23). OT
6). TO DATE	15). LD ICAO	24). SQD
7). ASSG ST	16). EN1	25). MISSION NUMBER
8). STP LD	17). OT	26). NUMBER
9). ALL LD	18). EN2	27). LEG

5.7.1. After accessing Program 9020, follow these steps:

5.7.1.1. Enter the BASE code. The base code is a 4-position code that must be entered for the base that possessed the aircraft at the time of the mission. Base codes are listed in Program 8007.

5.7.1.2. Enter the SN. This is the 8-position aircraft SERIAL NUMBER. The 6-position aircraft ID is not valid for this transaction.

5.7.1.3. Enter the SCAN DT or leave BLANK. The SCAN DATE field will normally be left blank unless if information from a previous flight is required. You can enter the desired date, if required, in the YYMMDD.

5.7.1.4. Enter ENG or leave BLANK. Enter the last 6 positions of the engine serial number only when the engine on the aircraft is not the engine that was on the aircraft when it was flown. If the

ENG field is left blank, G081 will retrieve the engine serial numbers from Program 8005. NOTE: If Program 8005 is not loaded with accurate data, G081 will update the hours for the incorrect engine serial number installed.

5.7.1.5. Enter the transaction (TR). Enter TRANSACTION code A to load the flight information for the aircraft, or D to delete flight information when incorrect data was previously entered and you desire to clear it from the system.

5.7.1.6. Enter the TO DATE. The TAKE-OFF DATE is provided on the AFTO Form 781, **Aircraft Flight Record Data**. Enter this data in the YYMMDD format.

5.7.1.7. Enter the aircraft ASSG ST. The ASSIGNED STATUS code indicates the proper funding for the mission flown. These codes are provided in the HELP (F1) screen of this program and are sorted by aircraft type.

5.7.1.8. Enter the number of stop (STP) land (LD). The STOP LANDING field contains the number of full stop landings made during the flight being documented. The information is used to assist in calculating the aircraft and landing gear service life. The number is provided by the aircrew and is recorded in AFTO Form 781**, Aircraft Flight Record Data**.

5.7.1.9. Enter the number of ALL ld. The ALL LANDINGS field contains the total of all full-stop landings plus touch-and-go landings. Information is provided by the aircrew and is recorded in AFTO Form 781, **Aircraft Flight Record Data.**

5.7.1.10. Enter the number of GR CYC. The GEAR CYCLE field is the count of the number of times the landing gear was cycled during the flight being documented. The information is provided by the aircrew and is recorded in the AFTO Form 781, **Aircraft Flight Record Data.**

5.7.1.11. Enter the number of SORTIES flown. Enter the number of SORTIES the aircraft flew. Information is recorded in the AFTO Form 781**, Aircraft Flight Record Data.**

5.7.1.12. Enter the TO TIME. Enter the TAKE-OFF TIME for the aircraft. This information is contained on the AFTO Form 781, **Aircraft Flight Record Data,** in ZULU time.

5.7.1.13. Enter the TO International Civil Aviation Organization (ICAO). Enter the 4-position TAKE-OFF ICAO code corresponding to the base from which the aircraft took off. This information is provided by the aircrew on the AFTO Form 781, **Aircraft Flight Record Data.** A valid list of ICAO and BASE codes are contained in program 8007. If you input the BASE code instead of the ICAO code, G081 will convert it to the ICAO code.

5.7.1.14. Enter the LD TIME. Enter the LANDING TIME for the aircraft. This is the time the aircraft landed and it is contained on the AFTO Form 781, **Aircraft Flight Record Data,** in ZULU time.

5.7.1.15. Enter the LD ICAO. Enter the 4-position LANDING ICAO code corresponding to the base from which the aircraft landed. This information is provided by the aircrew on the AFTO Form 781, **Aircraft Flight Record Data.** A valid list of ICAO and BASE codes are contained in program 8007. If you input the BASE code instead of the ICAO code, G081 will convert it to the ICAO code.

5.7.1.16. Enter the EN or leave BLANK. Enter the ENGINE CYCLES in these four fields. This is a conditional field used when the aircraft experiences an engine malfunction resulting in an

in-flight shut down of any engine. You will notice that there are four EN fields, one for each possible engine position.

5.7.1.17. Enter the OT or leave BLANK. If an entry was made in the EN field, select the proper code for the failure that caused the shut down from **Table 5.5.**. Follow the same step for the remaining engines, if applicable.

Table 5.5. Engine Shut Down Codes

Code	Reason
T	OVERTEMP
O	OIL CHANGE
S	SHUTDOWN
A	OVERTEMP and SHUTDOWN
B	OVERTEMP and OIL CHANGE
C	OIL CHANGE and SHUTDOWN

5.7.1.18. Enter the squadron (SQD). This is the flying SQUADRON to which the crew is assigned. It is a 2-digit code provided by the aircrew. It is also available in the HELP (F1) screen of this program.

5.7.1.19. Enter the MISSION: SYMBOL. The MISSION SYMBOL information is obtained from AFTO Form 781, **Aircraft Flight Record Data.** A list of mission symbols can be obtained from program 9055, *Mission Symbol Update*.

5.7.1.20. Enter the MISSION: NUMBER. The MISSION NUMBER is provided on AFTO Form 781, **Aircraft Flight Record Data.** It is a 12-position field with the second position being an alpha character. Example: 0A0000000001 (sample mission number).

5.7.1.21. Enter the LEG. The MISSION LEG is a 4-digit field contained on AFTO Form 781, **Aircraft Flight Record Data.**

5.7.1.22. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

5.7.2. **Figure 5.4.** is an example of a Program 9020 output screen. Once G081 accepts the data, it will return the Program 9020 back to you with an acceptance message at the bottom of the screen and an “OK” next to the lines of input. If G081 rejects your input, it will return the Program 9020 screen with ???? in the fields containing errors.

Figure 5.4. Program 9020 Output Screen

```
MAMU9020  BASE XDAT  SN 70000454 SCAN DT       ENG
-------------------------------------------------------------------------------------------------------------------------
----------
TO  ASSG        STP   ALL   GR    SOR-  TO    TO     LD    LD
TR DATE    ST    LD    LD   CYC   TIES  TIME  ICAO  TIME  ICAO EN1 OT EN2 OT EN3 OT EN4 OT
A  980615   IF    01    01    04    01    0500  KBLV 0700  KBLV
SQD  Q2   MISSION: SYMBOL N20A NUMBER 0A0000000001       LEG 0001

SQD       MISSION: SYMBOL       NUMBER                    LEG

SQD       MISSION: SYMBOL       NUMBER                    LEG

SQD       MISSION: SYMBOL       NUMBER                    LEG

SQD       MISSION: SYMBOL       NUMBER                    LEG

SQD       MISSION: SYMBOL       NUMBER                    LEG


NOTE: ON RETURNED SCREENS, CORRECT THE REJECTED LINES AND HIT ENTER
ENTRY LINES FOLLOWED BY "DEL/OK" WILL NOT BE PROCESSED.
```

5.8. Batch Discrepancy Input. Program 9040, *Batch Discrepancy Input*, provides the capability to create up to 9 aircraft discrepancies with one transaction. If you elect to add more than one, the Job Control Numbers (JCN) assigned to the discrepancies must be sequential. If an error with an input exists when the information is entered, the G081 system will default to Program 9050, *Input Aircraft Discrepancies*, for resolution.

5.9. Processing Program 9040. To update the database with new discrepancies, you must first access Program 9040 in the G081 system. The screen pictured in **Figure 5.5.** will be presented on the terminal. **Table 5.6.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data.

Figure 5.5. Program 9040 Input Screen

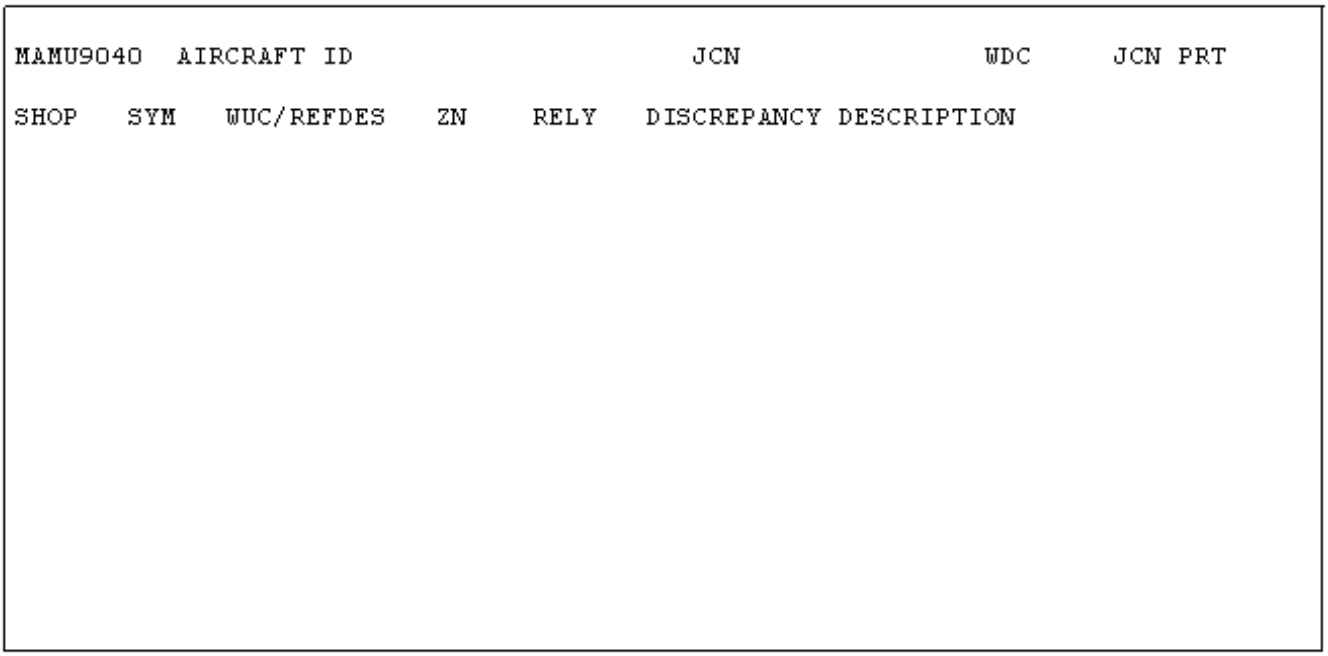


Table 5.6. Program 9040 Data Entry Fields

1). AIRCRAFT ID 2). JCN 3). WDC 4). JCN PRT 5). SHOP	6). SYM 7). WUC/REFDES 8). ZONE 9). RELY 10). DISCREPANCY DISCRIPTION

5.9.1. After accessing Program 9040, follow these steps:

5.9.1.1. Enter the AIRCRAFT ID. This is the 6-position AIRCRAFT IDENTIFICATION NUMBER. If you don't know what it is, use Program 8005, *General Data For a Given Aircraft*, to inquire. You may not use the aircraft serial number.

5.9.1.2. Enter the JCN. Enter the 7-position JOB CONTROL NUMBER that is assigned to the discrepancy being entered.

5.9.1.3. Enter the WDC. The WHEN DISCOVERED CODE (WDC) is a one-position field used to identify at what point in time the discrepancy was discovered. Use the applicable *-6 Work Unit Code* manual to find the proper WDC for the discrepancy being entered. ***NOTE:*** If the When Discovered Code you enter is an A, B, C, or D, you must enter a RELIABILITY code.

5.9.1.4. Enter the JCN PRT or leave BLANK. If you wish to print an automated AFTO Form 349 in Job Control, enter an X in the JOB CONTROL PRINT field.

5.9.1.5. Enter the SHOP. This is the mnemonic of the SHOP that will perform the work on the aircraft. For a valid list of shop mnemonics for your base, process Program 9007, *Work Center Update*.

5.9.1.6. Enter the SYM. The SYMBOL is used to identify the condition of the aircraft. Enter the appropriate symbol from **Table 5.7.**.

Table 5.7. Condition Symbol Codes.

Symbol	Condition
NS	NMCS (RED-X for SUPPLY)
NM	NSCM (RED-X for MAINTENANCE)
NG	PMCM (RED / for MAINTENANCE)
NE	PMCS (RED / for SUPPLY)
IN	INSP (for INSPECTION or UNKNOWN CONDITION)
NO	NOTE (NON-SYMBOL NOTES)
—	NO SYMBOL

5.9.1.7. Enter the WUC/REFDES. Input 5-digit WORK UNIT CODE (WUC), or a 10-digit REFERENCE DESIGNATOR. The reference designator is unique to the C-17 aircraft. If you are unsure about the correct WUC, use the applicable –6 manual for your Mission Design Series.

5.9.1.8. Enter the ZONE or leave BLANK. In most cases, the ZONE is not required. It is required only for ISO and REFURB discrepancies. For a more in-depth explanation of the Zone refer to the glossary of this manual.

5.9.1.9. Enter the reliability (RELY) code. If an A, B, C, or D was entered in the When Discovered Code, you must enter a RELIABILITY code. It is imperative that you enter the correct code because system reliability is an indicator that is tracked and reported to management on a regular basis. Select the appropriate code from **Table 5.8.**.

Table 5.8. Reliability Codes.

Code	Condition
2	System operation, minor defects
3	System operation, system failed and caused aircraft PMC condition
4	System operation, failure, caused air abort
5	System not used, inoperative
6	System operation, failure, caused aircraft to be in a NMC condition.

5.9.1.10. Enter the DISCREPANCY DESCRIPTION. Be as thorough as possible when inputting the description. It should describe, in detail, the maintenance problem the aircraft is experiencing. If abbreviations are used, ensure that they are easily understood. ***NOTE:*** If you have additional discrepancies to enter, TAB to the next entry line. The G081 system will automatically enter the same JCN, WDC, and JCN PRT. You will enter data starting with SHOP through DICREPANCY DESCRIPTION.

5.9.1.11. Press the ENTER key. Once all required fields are input press the ENTER key to send the data to G081.

5.9.2. **Figure 5.6.** is an example of the output from Program 9040. Once G081 accepts the data, it will return the Program 9040 with an ACCEPTED message at the bottom of the screen. If G081 rejects your input, it will return a 9050 screen and a reject letting you know what is in error.

Figure 5.6. Sample Completed Program 9040 Screen

```
MAMU9040  AIRCRAFT ID QA8935 JCN 012C203 WDC  F JCN PRT X
 SHOP SYM WUC/REFDES ZN RELY  DISCREPANCY DESCRIPTION

QG102- NG   41AEB             TEMPERATURE INDICATOR FLUCTUATES

QG300- NG   24AJB             ENGINE IGNITOR COIL CHAFFED









ACCEPTED--DISC ABOVE ARE ACCEPTED. REJECTS WILL RETURN ON 9050 SCREENS.
```

5.10. Maintenance Data Documentation (MDD). Program 9099, *MDC Input Program*, provides an AFTO Form 349 format for input of MDD data from maintenance shops. This program updates history files and can have far-reaching effects if not properly processed. Many managers make decisions on the data entered via this program.

5.10.1. All inputs made to this program are audited for data integrity by the local Analysis (AMSA) branch.

5.11. Program 9099 Processing Instructions. To update MDD data, you must first access Program 9099 in the G081 system. The screen pictured in **Figure 5.7.** will be presented on the terminal. **Table 5.9.** lists all of the fields that are to be discussed in the instructions. Optional fields are explained in order to increase your understanding level of the G081 system and to aid you in narrowing your search for data. In most cases an example output screen is shown to aid in your understanding of the products.

Figure 5.7. Program 9099 Input Screen

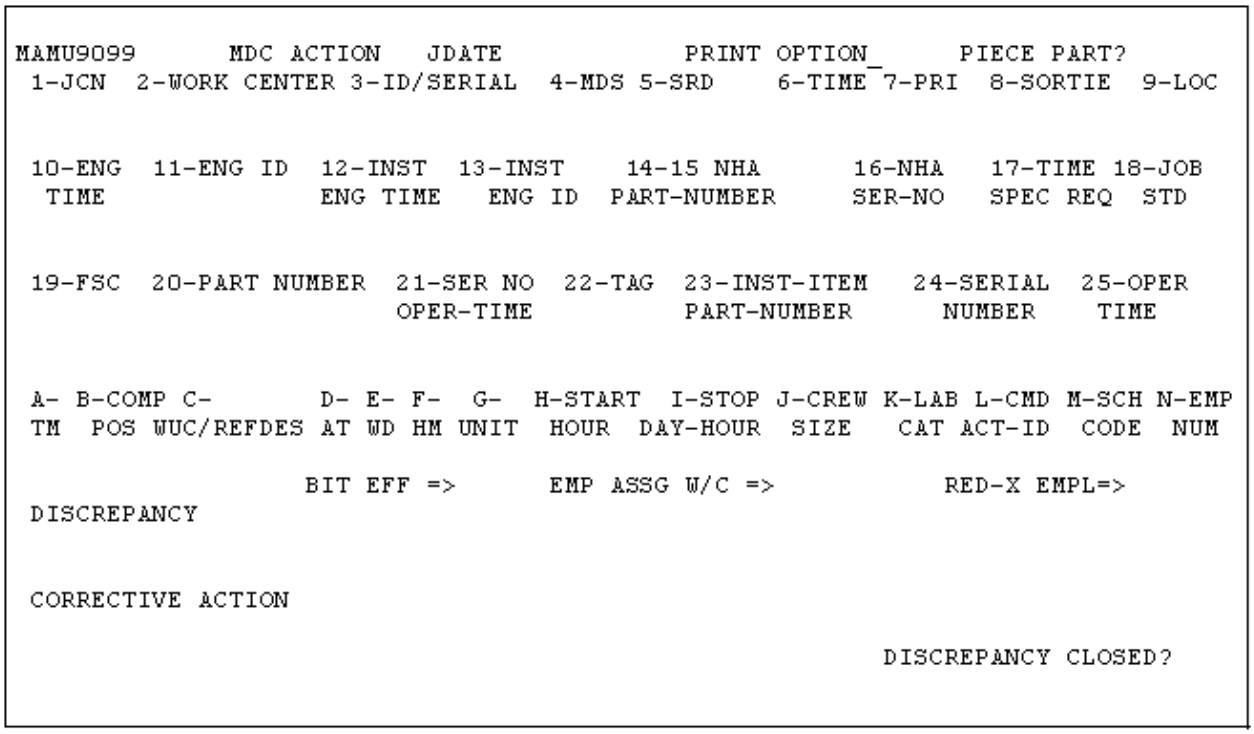


Table 5.9. Program 9099 Data Entry Fields.

1). PRINT OPTION	16). NHA PART NUMBER	31). WD
2). PIECE PART?	17). NHA SER NO	32). HM
3). JCN	18). TIME SPEC REQ	33). UNIT
4). WORKCENTER	19). JOB STD	34). START/STOP HOUR/DAY
5). ID/SERIAL	20). FSC	35). CREW SIZE
6). MDS	21). PART NUMBER	36). CAT LAB
7). SRD	22). SERIAL NO OPER TIME	37). CMD ACT ID
8). TIME	23). TAG	38). SCH CODE
9). PRI	24). INST ITEM PART NUMBER	39). EMPLOYEE NUMBER
10). SORTIE	25). SERIAL NUMBER	40). BIT EFF
11). LOC	26). OPER TIME	41). EMP ASSG W/C
12). ENG TIME	27). TM	42). RED-X EMP
13). ENG ID	28). COMP POS	43). DISCREPANCY
14). INST ENG TIME	29). WUC	44). CORRECTIVE ACTION
15). INS ENG ID	30). AT	

5.11.1. After accessing Program 9099, follow these steps:

5.11.1.1. Enter the PRINT OPTION or leave BLANK. This field is used to report problems to the G081 Management section. Each base has a unique code. Contact you local G081 Manager for your code. External help can be gained by entering an asterisk (*) to send rejected 9099 screens to the 9099 Programmer at Tinker AFB, or a plus sign (+) to send a copy to both the Programmer and to HQ AMC/LGQA.

5.11.1.2. Enter the PIECE PART? or leave BLANK. If documenting MDD on a piece part, enter a Y in this field.

5.11.1.3. Enter the JCN. Enter the 7-position JOB CONTROL NUMBER. Every action relating to a discrepancy, TCTO, or support general action will be documented. The first three positions must be numeric between 001-366. The fourth position may be a number or a letter. The last three positions must be numeric. Make sure the letters I and O are not substituted for the numeric one and zero.

5.11.1.4. Enter the WORKCENTER. Enter the performing WORKCENTER number or mnemonic. Use Program 9007 or 9045 to retrieve a list of valid work centers/mnemonics for your use.

5.11.1.5. Enter the ID/SERIAL. Enter the 6-position IDENTIFICATION number or the 8-position SERIAL number. If a SERIAL number is used, the MDS and SRD need not be filled out.

5.11.1.6. Enter the MDS or leave BLANK. Enter the Mission Design Series of the aircraft being documented. This field contains seven positions. Prefix the MDS with spaces (not dashes) to fill all positions. For non Air Force aircraft enter NONAF-- (Notice 2 blank spaces). Example: --C005A (C-5 aircraft).

5.11.1.7. Enter the SRD or leave BLANK. Enter the STANDARD REPORTING DESIGNATOR (SRD) if the serial number was not entered in the ID/SERIAL field. These codes can be found in TO 00-20-5.

5.11.1.8. Enter the TIME or leave BLANK. Enter the end item operating TIME for removal and replacement of items identified with an asterisk (*) in the –06 *Work Unit Code* manual. This is a 5–position field and is required for removal and replacement of engines and end items. If the operating TIME is less than 5 positions, prefix it with zeros. Enter the time rounded off to the nearest whole hour.

5.11.1.9. Enter the PRI or leave BLANK. The PRIORITY block is not used for MDD input, but is a reference block used when an automated 349 is sent to a printer. It displays the priority of the equipment.

5.11.1.10. Enter the SORTIE or leave BLANK. This field is used for in-flight discrepancies. Enter the SORTIE number if applicable.

5.11.1.11. Enter the LOC or leave BLANK. The equipment location is displayed in this field when the automated 349 is printed as a dispatch form.

5.11.1.12. Enter the ENG TIME or leave BLANK. If you are removing an engine, enter the ENGINE operating TIME when it is removed. It is required for engine removal, in-shop module removal, and gas turbine engine removal. This is a 5-position number prefixed with zeros. Enter the time rounded to the nearest whole hour.

5.11.1.13. Enter the ENG ID or leave BLANK. If you are removing an engine, enter the 5-position ENGINE IDENTIFICATION number or leave BLANK. Entries are only required when block ENGINE TIME is used.

5.11.1.14. Enter the INST ENG TIME or leave BLANK. If you are installing an engine, enter the engine operating time for the INSTALLED ENGINE. This is a 5-position number prefixed with zeros. Enter the time rounded to the nearest whole hour.

5.11.1.15. Enter the INST ENG ID or leave BLANK. If you are installing an engine, enter the IDENTIFICATION NUMBER of the engine being installed.

5.11.1.16. Enter the NHA PART-NUMBER or leave BLANK. If you are installing or removing an engine component off the Next Higher Assembly (NHA) then you may enter the NHA part number in this block. This block may be used at the discretion of local management.

5.11.1.17. Enter the NHA SER-NO or leave BLANK. If you are installing or removing an engine component off the Next Higher Assembly (NHA), then you may enter the NHA serial number in this block. This block may be used at the discretion of local management.

5.11.1.18. Enter the TIME SPEC REQ or leave BLANK. When the automated 349 is printed as a dispatch form, the printout will contain the time that maintenance aircraft control center (MACC) has scheduled the shop to begin work.

5.11.1.19. Enter the JOB STD or leave BLANK. When the automated 349 is printed as a dispatch form, printout will display the number of technicians required and the amount of time required to complete this job. The job standard is based on the work unit code and action taken code.

5.11.1.20. Subparagraphs **5.11.1.21.** through **5.11.1.27.** are mandatory entries used for both removal and replacement actions of serially controlled items. These items are identified by an asterisk (*) in the –06 *Work Unit Code* manual. You may leave these fields BLANK if your WUC is not serially controlled.

5.11.1.21. Enter the FSC or leave BLANK. Enter the FEDERAL SUPPLY CLASSIFICATION (FSC) code of the item being worked on. The FSC is the first 4 digits of the national stock number. This field will never be left blank for off-equipment work, with the exception of PME.

5.11.1.22. Enter the PART NUMBER or leave BLANK. Enter the part number of the item being documented. No slash (/) or dash (-) will be used except between numeric characters. For items not having a part number, use the National Item Identification Number (NIIN).

5.11.1.23. Enter the SERIAL NO/OPER–TIME or leave BLANK. Enter the 10-position serial number of the item being removed or installed. If the serial number is less than 10 positions, prefix it with zeros. If the serial number is greater than 10 positions, only the last 10 positions are used. For off-equipment and PME, this field may be used for documenting the reading of Elapsed Time Indicators (ETI) for time change items. In this case, enter the time rounded to the nearest whole hour or month instead of the serial number.

5.11.1.24. Enter the TAG or leave BLANK. Enter the last 3-positions of the AFTO Form 350 tag number. Entering YES will build a 350 tag when Action Taken Code P or R is used in the AT field.

5.11.1.25. Enter the INST-ITEM PART NUMBER or leave BLANK. Enter the component part number of the NIIN. No slash (/) or dash (-) is used except between numeric characters.

5.11.1.26. Enter the SERIAL NUMBER or leave BLANK. Enter the 10-position serial number of the item being installed. If the serial number is less than 10 positions, prefix it with zeros. If the serial number is greater than 10 positions, only the last 10 positions are used.

5.11.1.27. Enter the OPER TIME or leave BLANK. Enter the 5-position component operating time, prefixed with zeros. Time will be to the nearest whole hour or month since last overhaul.

5.11.1.28. Enter the TM. Enter the type maintenance as listed in the –06 *Work Unit Code* manual.

5.11.1.29. Enter the COMP POS or leave BLANK. This is the relative position of the installed component on the aircraft. This field must be entered when processing MDD for work unit code systems 21, 22, 23, or 24 and the second position of the ID/SERIAL NUMBER is an A. ***NOTE:*** Positions 1 through 4 of this field are used for engines, and positions L and R are used for APU.

5.11.1.30. Enter the WUC. Enter the correct Work Unit Code (or Reference Designator for C-17). If unsure about the correct WUC, consult the appropriate –06 *Work Unit Code* manual for your MDS.

5.11.1.31. Enter the AT. Enter a valid ACTION TAKEN code. This is the action that was performed for this discrepancy. Consult the appropriate –06 *Work Unit Code* manual or Program 8014 for valid action taken codes.

5.11.1.32. Enter the WD. Enter the WHEN DISCOVERED code. This code designates at what point in time the discrepancy was discovered. Consult the appropriate –06 *Work Unit Code* manual for a list of when discovered codes.

5.11.1.33. Enter the HM. Enter a valid HOW MALFUNCTION code. Consult the appropriate –06 *Work Unit Code* manual or use program 8015 for a list of how malfunction codes.

5.11.1.34. Enter the UNIT. Enter the number of times (00 to 99) an action was taken against an item.

5.11.1.35. Enter the START and STOP HOUR/DAY. Start and stop hours must be a 4-position 24-hour clock time to the nearest 5 minutes. Start/stop hour cannot be greater that 2400. Total elapsed time cannot exceed 8 hours. Stop day must be 001 through 366 and cannot be more than 60 days old or greater than the current processing day. Example: 0700 022 0800 (job started at 0700 on 22 January and completed at 0800).

5.11.1.36. Enter the CREW SIZE. Enter a number between 0-9 with the same category of labor. If the crew size is greater than 9, or the category of labor is different, a second line entry will be entered to show the balance of personnel. Only one of these line entries will show units completed.

5.11.1.37. Enter the CAT LAB. Enter a number between 1-6 for the CATEGORY of LABOR. If more than one CATEGORY of LABOR was used to accomplish a job, separate line entries will be made. If overtime is encountered, the original line entry will be closed with zero units and a new line entry will be initiated using the appropriate cat lab. Consult T O 00-20-2 for a listing of these codes.

5.11.1.38. Enter the CMD ACT-ID or leave BLANK. Enter a COMMAND CODE when a serial number is used in ID NO/SERIAL NO field. A list of command codes can be found in TO 00-20-2, appendix B. The activity identifier in the front of the –06 *Work Unit Code* manual may also be used.

5.11.1.39. Enter the SCH CODE or leave BLANK. Enter an X in the SCHEDULED CODE field when documenting maintenance actions that are scheduled based on a date last accomplished.

5.11.1.40. Enter the EMPLOYEE NUMBER. Enter the 5-position employee number assigned by the Programs and Mobility office. The employee number must be assigned to the performing work center entered in the WORKCENTER field.

5.11.1.41. Enter the BIT EFF or leave BLANK The BIT EFF field is for C17 aircraft only. Utilize one of the codes listed in **Table 5.10.**.

Table 5.10. C-17 BIT Effectiveness Code.

Code	Meaning
1	BIT detected a malfunction when one existed.
2	BIT failed to detect a malfunction when one existed (BIT was designed to detect this malfunction).
3	BIT correctly isolated to the failed LRU.
4	BIT did not isolate to the failed LRU
5	BIT indicated a malfunction when none existed (verified by Can Not Duplicate)
6	BIT indicated a malfunction when none existed (verified by RETEST OK)

5.11.1.42. Enter the EMP ASSG W/C or leave BLANK. Enter the EMPLOYEE ASSIGNED WORK CENTER when signing off a job that is assigned to a shop other than the one the job control number is assigned to.

5.11.1.43. Enter the RED-X EMP or leave BLANK. If the discrepancy is a RED-X, you must enter the employee number of an employee (usually a 7 or 9 level) who is qualified to sign off a RED-X write up.

5.11.1.44. Enter the DISCREPANCY or leave BLANK. The DISCREPANCY should have already been entered when the job was created. If not, or if there is an invalid entry, contact the MACC to correct the narrative.

5.11.1.45. Enter the CORRECTIVE ACTION. Enter the CORRECTIVE ACTION, in as much detail as possible, of the discrepancy you are documenting. The corrective action must match your action taken and the how malfunction code.

5.11.1.46. Press the ENTER key. Once all required fields are input, press the ENTER key to send the data to G081.

5.11.1.47. **Figure 5.8.** shows an example of a properly filled out Program 9099 screen. Once G081 accepts the data, it will return the Program 9099 screen back to you with an ACCEPTANCE MESSAGE at the bottom of the screen. If G081 rejects your input, it will return the Program 9099 screen with an error message indicating which fields must be corrected.

Figure 5.8. Completed Program 9099 Screen

```
MAMU9099      MDC ACTION   JDATE            PRINT OPTION:     PIECE PART?

1-JCN  2-WORK CENTER 3-ID/SERIAL  4-MDS 5-SRD    6-TIME 7-PRI  8-SORTIE  9-LOC
042C216     QE800       70000454

 10-ENG  11-ENG ID  12-INST  13-INST    14-15 NHA       16-NHA   17-TIME 18-JOB
  TIME              ENG TIME   ENG ID  PART-NUMBER     SER-NO   SPEC REQ  STD


 19-FSC  20-PART NUMBER  21-SER NO  22-TAG  23-INST-ITEM   24-SERIAL  25-OPER
                         OPER-TIME          PART-NUMBER      NUMBER    TIME


 A- B-COMP C-       D- E- F-  G-  H-START  I-STOP J-CREW K-LAB L-CMD M-SCH N-EMP
 TM  POS WUC/REFDES AT WD HM UNIT   HOUR  DAY-HOUR  SIZE   CAT ACT-ID  CODE  NUM
 B       41AEB      R  D  037 01    0700  222 0800   1      1              01234
                  BIT EFF =>      EMP ASSG W/C =>           RED-X EMPL=>
 DISCREPANCY
 TEMPERATURE INDICATOR FLUCTUATES

 CORRECTIVE ACTION
REMOVED AND REPLACED TEMPERATURE INDICATOR
                                                        DISCREPANCY CLOSED?
```

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Deputy Director of Logistics

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 21-101, *Maintenance Management of Aircraft*

AFI 21-103, *Equipment Inventory, Status, and Utilization Reporting*

AFI 21-104, *Selected Management of Selected Gas Turbine Engines*

AMCI 21-101, *Maintenance Management Policy*

AMCPAM 21-112, *G081 System Management*

AMCPAM 21-115, *CAMS for Mobility (G081) Program Description*

AMCI 23-101, *Instruction for Decentralized Supply Support*

TO 00-20-2, *Maintenance Data Documentation*

TO 00-20-5, *Aircraft, Drone, Aircrew Training Devices, Engines, and Air-Launched Missile Inspections, Flight Reports, and Supporting Maintenance Documents*

TO 00-20-7, *Inspection System, Documentation, and Status Reporting for Support and Training Equipment*

TO 00-25-254-1, *System Manual-Comprehensive Engine Management System (CEMS) (D042) Engine Status, Configuration, and TCTO Reporting Procedures*

TO 1-1-3, *Inspection and Repair of Aircraft Integral Tanks and Fuel Cells*

TO 1-1H-39, *General Aircraft Battle Damage Repair*

TO 33-1-37, *Oil Analysis Program*

Abbreviations and Acronyms

ACFT—Aircraft

ACTN—Action

AFB—Air Force Base

AFMC—Air Force Materiel Command

AFRC—Air Force Reserve Command

AFTO—Air Force Technical Order

AGE—Aerospace Ground Equipment

ALC—Air Logistics Center

AMC—Air Mobility Command

AMCI—Air Mobility Command Instruction

ANG—Air National Guard

APU—Auxiliary Power Unit

ASSG—Assigned

A/T—Action Taken

CAMS—Core Automated Maintenance System

CANN—Cannibalization

CEI—Component End Item

CEMS—Comprehensive Engine Management System

EMP—Employee

ENG—Engine

EDJC—Estimated Date Job Complete

EST—Estimated

ETIC—Estimated Time in Commission

ETJC—Estimated Time Job Completion

GUI—Graphical User Interface

HM—How Malfunction

HQ—Headquarters

HSC—Home Station Check

ICAO—International Civil Aviation Organization

ID—Identification

INFO—Information

ISO—Isochronal Inspection

JCN—Job Control Number

JCNS—Job Control Number Suffix

LD—Land

MACC—Maintenance Aircraft Control Center

MAJCOM—Major Command

MDD—Maintenance Data Documentation

MDS—Mission Design Series

NDI—Non-destructive Inspection

PDM—Program Depot Maintenance

QTY—Quantity

REF DES—Reference Designator

RELY—Reliability

SBSS——Standard Base Supply System

SE—Support Equipment

SERID—Serial Identification

SQD—Squadron

S/N—Serial Number

STP—Stop

SRD—Standard Reporting Designator

SYM—Symbol

TCTO—Time Compliance Technical Order

TM—Type Maintenance

TNB—Tail Number Bin

TO—Technical Order

TR—Transaction

WD—When Discovered

WDC—When Discovered Code

WUC——Work Unit Code